PAGE SENSE DSW EXERCISER TABLE OF CONTENTS PARAGRAPH 1. PURPOSE, PROGRAM REQUIREMENTS EQUIPMENT REQUIREMENTS 2.2 PROGRAM LOADING OPERATION 3.2.1 TYPICAL OPERATING PROCEDURE 3.2.2 OPERATING OPTIONS TERMINATING PROCEDURE RESTART PROCEDURE PROGRAM HALTS 6. APPENDIX (NONE) 1. PURPOSE THE SENSE DSW PROGRAM IS DESIGNED TO CONTINUOUSLY SENSE THE DSW.
USING THE AREA CODE SET INTO THE DATA ENTRY SWITCHES. THE PROGRAM
WILL PRINT THE FIRST SENSE WORD RECEIVED AND THEREAFTER PRINT THE
WORD RECEIVED ANYTIME IT CHANGES. THE INITIAL SENSE WILL BE
NON-RESETABLE. THE PROGRAM WILL THEN SENSE RESETABLE. FOLLOWED BY A
SENSE NON-RESETABLE. THEREAFTER ALL SENSES WILL BE NON-RESETABLE.
UNLESS THE WORD RECEIVED CHANGES. FOLLOWING ANY CHANGE IN THE WORD.
THE NEW WORD WILL BE PRINTED AND A RESETABLE SENSE ISSUED. 2. REQUIREMENTS PROGRAM # TREMENTS THE BASIC STAGNOSTIC LOADER IS REQUIRED, TO LOAD THE SENSE DSW PROGRAM. EQUIPMENT REQUIREMENTS

A. 1442 CARD READ/PUNCH OR 1054 PAPER TAPE READER.
B. 1053/1816 TYPEWRITER, OR 1443 PRINTER.

C. 1800 PROCESSOR/CONTROLLER.

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- 3. OPERATING PROCEDURE
 - .1 PROGRAM LOADING

REFER TO BASIC LOADER DOCUMENTATION FOR LOADING INSTRUCTIONS. AFTER LOADING PROGRAM WILL STOP AT WAIT 1. SEE SECT. 3.5. PROGRAM HALTS.

- 3.2 OPERATION
- 3.2.1 TYPICAL OPERATING PROCEDURE
 - A. WITH PROGRAM STORFED AT WAIT 1. SET THE DESIRED AREA CODE PLUS ANY NECESSARY MODIFIERS IN THE DATA ENTRY SHITCHES EXACTLY AS THEY SHOULD APPEAR IN THE SENSE DSW LOCC WORD., SEE TABLE 1.

NOTE. DO NOT SET THE FUNCTION IN THE SWITCHES. DNLY THE AREA CODE AND MODIFIERS SHOULD BE SET.

- B. PRESS START BUTTON.
- C. HITH PROGRAM STOPPED AT WAIT 2. SET OPTIONS PER TABLE 2.

TABLE 1 - AREA CODE - REQUIRED

1. SWITCHES MAY BE SET PRIOR TO PROGRAM LOADING, OR AT WAIT 1.
2. ONCE PROGRAM EXECUTION HAS STARTED ANY CHANGE IN THESE SWITCHES WILL BECOME EFFECTIVE ONLY IF STOP, RESET, AND START BUTTONS ARE PRESSED, WHICH WILL RETURN PROGRAM TO WAIT 1.

					-							TCH							:
0	1	2	3	4	5	6		7	8	9	10	11	12	13	14	• 1	5	8	DESCRIPTION
					ĸ	×	1	K									x		NOT TO BE USED
Ą	Y	Y	Y	٧.	•		•		••	••	••	•••	•••	•••	• • •	• • •	• •	•	DESIRED AREA CODE
								ı	M	H	•	M	×	×		١.,	• • •	• •	MODIFIERS AS NECESSARY

3.2.2 OPERATING OPTIONS

IF OPTIONS ARE DESIRED SET SWITCHES DESIRED FROM TABLE 2 AND DEPRESS THE START BUTTON.

TABLE 2 - DPERATING OPTIONS

1. THESE SHITCHES MAY BE CHANGED AT ANY TIME.

,					DAT	A (ENT	RY	Sh	ITC	HE	•			*DE	SCI	RIPT	ION							
O	1	2	3	4	5 6	7	8	9	10	11	13	14	15	•											
.								•			i	• • • •	••	•••	BY	PA:	5 S P	RIN	TOU	T					
) }								i.	•••	• • •				•••		E :	1443	AS	ou	TPU	T (RIN	TER		

.3 TERMINATING PROCEDUBE

THIS PROGRAM WILL RUN CONTINUOUSLY. TO TERMINATE, DEPRESS STOP BUTTON

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RESTART PROCEDURE 3.4

> DEPRESS STOP, RESET, AND START BUTTONS. PROGRAM SHOULD RETURN TO MAIT 1. IF THIS DOES NOT OCCUR, PROGRAM MUST BE RELOADED.

PROGRAM HALTS 3.5

> PROGRAM WAITS ARE USED IN THIS PROGRAM, AND ARE IDENTIFIED BY REFERENCING THE B REG AND I REG.

A PROGRAM WAIT IS OF THE FORM.

30XX, [B REG].

A DESCRIPTION OF THE INDIVIDUAL PROGRAM WAITS CAN BE FOUND AT THE BEGINNING OF THE PROGRAM LISTING. A TYPICAL WAIT DESCRIPTION FOLLOWS.

IT IS INCLUDED TO SHOW THE FORMAT OF THE LISTING. AND IT IS NOT NECESSARILY A DESCRIPTION OF AN ACTUAL MAIT.

3001 0 01ED

WAIT1+1

MAIT 1

ONE OF THE METERED I/O UNITS FAILED TO SEND A RESPONSE INTERRUPT TO THE PROGRAM. INDEX REGISTER 1 WILL HAVE THE ADDRESS OF THE IOCC. THE AREA CODE WILL INDICATE THE I/O UNIT NOT READY. IF A 2401/02 DRIVE IS NOT READY. PROGRAM WILL NOT STOP AT WAIT 1.

B REG. (FIRST 4 DIGIT GROUP) CORRESPONDS TO B REG READING.

I REG. (SECOND 4 DIGIT GROUP) CORRESPONDS TO I REG READING.

4. PRINTOUTS

THIS PROGRAM HAS ONLY ONE PRINTOUT. THIS PRINTOUT WILL OCCUR ON THE INITIAL SENSE OF THE DSW AND ON ANY CHANGE OF THE SENSE WORD RECEIVED. THE PRINTOUT APPEARS AS FOLLOWS,

PID MID DSW RECEIVED

BAOD AON1 XXXX

5. COMMENTS

THIS PROGRAM IS DESIGNED PRIMARILY AS A SCOPING AID. THE PROGRAM HAS NO DIAGNOSTIC ABILITY. BUT WILL MERELY SENSE OSM OF SPECIFIED
DEVICE. THE PRINTOUT IS PROVIDED AS A CONVENIENCE. ONE POSSIBLE USE
IS AT INSTALLATION, WHERE POINTS COULD BE SHORTED AND PROGRAM MOULD PRINT WHAT IT RECEIVED.

6. APPENDIX (NONE)

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O C		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	\mathbf{C}	(:	C	C	C	C	C	C	C	C	C	Q	C	d.
-----	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--------------	----	---	---	---	---	---	---	---	---	---	---	---	----

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2183238 PAGE 1 SENSE DSW EXERCISER ABS 02BC 8BA00000 ORG /3001 01000A8S *#XXXXXXXXXXXXXXX PROGRAMMED WAITS XXXXXXXXX 8BA00020 8BA00030 8BA00040 3001 0 0137 8BA00050 WAIT1+1 WAIT FOR AREA CODE 8BA00060 AND MODIFIER TO BE 8BA00070 SET IN THE DATA SWS. 88A00080 PUSH START TO CONTINUE. 88A00090 3002 0 0130 8BA00100 DC WAIT2+1 WAIT FOR PROGRAM CONTROL 8BA00110 SWITCHES TO BE SET. 8BA00120 PUSH START TO CONTINUE. 8BA00130 3003 0 01DC 8BA00140 DC 1443 PRINTER IS NOT WAIT3+1 8BA00150 READY. MAKE THE 8BA00160 PRINTER READY AND 88A00170 PUSH START TO 8BA00180 CONTINUE. 8BA00190 3004 0 0263 8BA00200 DC WAIT4+1 THE TYPEWRITER IS 8BA00210 NOT READY. MAKE THE 8BA00220 TYPEWRITER READY AND 8BA00230 PUSH START TO CONTINUE. 88400240 8BA00250 3005 DRG 300 012C 0 BA00 8BA00260 DC /BA00 8BA00265 012D 00 0C0001EC BEGN XID L MASKO MASK ALL INTRPTS C12F 00 OCO001EE 8BA00270 XIO L MASKE 0131 0 C856 88400280 LDD REST GET RESTART 0132 00 DC000000 8BA00290 SID 0 SET IN ZERO 8BA00300 0134 0 1000 88A00310 START HOP 0135 0 C051 8BA00320 LD DSW+1 GET SNSE TOCC 0136 0 3001 8BA00330 WAITE WAIT WALT FOR SW SETTING 0137 0 084C 8BA00340 XIO RDBSH READ DATA SWS 85A00350 0138 0 C051 8BA00360 LD 854 GET DATA SWS 0139 0 F04C 88A00370 EOR DSW SET IN SENSE TOCC 013A 0 D04C 85A00380 510 DSW+1 SAVE 013B 0 C04B 88A00390 L D D5#+1 GET AREA CODE 0130 0 3002 88A00400 WALTE WALT 2 WAIT FOR CONTROL SWS 88400410 013D 0 0848 88A00423 XIO DSM SENSE DEVICE 013E 0 D04C 88AU0430 STO DSWI SAVE 89400440 013F 0 0844 88400450 PRINT XIO RDBSW READ DATA SWS 0140 0 CO49 88/00460 LD BSW GET SWS 0141 0 1802 88ACC470 SRA 0142 0 4804 8FA0048G BSC IS BYPASS PRINT CN 0143 0 7013 88AD0490 MUX BYPAS 0144 D C046 88A00500 ίD DSWI GET SENSE WD 0145 00 D400018E 86A30510 STU L HEXND STORE IN CONV RTN 0147 00 440001A4 88A00520 BSI L HEXCY GO CONVERT TO HEX SRC 0149 00 CC0001C4 88400530 LDD L HEXCD GET CONVERTED WD 0148 00 DC000196 88A00540 STD L MSG SET IN MSG 88A00550 014D 0 0836 88A00560 XIO READ DATA SWS RDBSW 014E 0 C03B 88AJ0570 LD BSW 014F 0 1009 GET SWS 88400580 SLA 0150 0 4828 86400590 BSC SKIP - USE TYPE 0151 0 7003 88400673 MDX PR143 0152 00 440001F2 01800A58 BSI L LOGC CUNVERT AND TYPE 0154 0 7002 SRC 88A00620 BYPAS 01'5 00 44000106 8BA00630 PR143 EST L PR43 PRINT ON 1/43 0157 0 CO2F SRC 88A00640 BYPAS LD DSW+1 GET SENSE IUCC 0158 0 F034 88A00650 **E OR** ADD RESET BIT ONE 88A00660 DATE LC FO. 28FE866 415120 04NDV66 415233 FROG ID 08BA-0 PAGE

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0159	D02D		STO	1	DSW+1	CAUC		
		*	٠.٠	•	DSHVI	SAVE		8BA00670
015A 0			XIC		DSW	SENSE WITH RESET		88A00680
0158 0	D02F	_	STC)	DSW1	SAVE		88A00590 88A00700
0150 0	COZA	SAIALE	RS LD		25			8BA00710
0150 0		214141	NS LD Sra		DSW+1 1	GET SENSE IDCC		8BA00720
015E O			SLA		i	ELIMINATE RESET BIT		6BA00730
015F 0	D027		SYO		DSW+1	SAVE		8BA00740
0160 0		*						88400750
0161 0			X10		DSW	SENSE-NO RESET		88400760 88400770
C162 0			STO		DSW2	SAVE		8BA00780
	0 4C18015C		EOR BSC		DSW1			8BA00790
0165 0	C026		LD	-	SNNRS++- DSW2	HAS NO CHANGED		88400800
0166 0	D024		STO		DSW1	GET NEW DSW Save		88400810
0167 0	081C		XIO		RDBSW	READ DATA SWS		88A00820
0168 0 0169 0	C021		LD		BSW	GET SWS		88A00830 88A00840
	1802 D 4C04017F		SRA		2			88A00850
0160 0	COLE		B S C L D	Ł	,-		ΥT	88A00860
0160 00	D40001BE		STO	L	DSW1 Hexwd	GET DSW		8BA00870
016F 00	440001A4		129	ī	HEXCV	SET GO CONVERT		88400860
0171 00	CC0001C4		LDD	Ē	HEXCD	GET CONVERTED WD	SRC	8BA00890
0173 00	DC000196		STD	L	MSG	SET IN MSG		8BA00900
0176 0	080E C013		XIO		RDBSW	READ DATA SWS		88A00910 88A00920
0177 0	1009		LD		BSW	GET SWS		8BAC0930
0178 00	40280170		S L A B S C	L	9	0.0.4		8BA00940
017A 00	440001F2		128	Ĺ	PR433;+Z LOGC	BRANCH = USE 1443		88A00950
0170 0	7002		X CM	_	BPAS1	CONVERT AND TYPE	SRC	8BA00960
017D 00	440001D6		128 6	L	PR43	PRINT ON 1443	SPC	88400970
0180 0	C007 F00C	BPAS			DSW+1	GET SENSE TOCC	316	88A00980 88A00990
0181 0	D005		EOR STO		ONE	SET RESET BIT		89A01000
0182 0	0803		310		DSW+1 DSW	SAVE		88A01010
0183 0	7008		MDX		SNNPS	SENSE WITH RESET		88A01020
		*			······ •			8BA01030
		*						88A0104 0 88A01050
		*						88A01060
0184	0000	•	BSS	c	0			8BA01070
0184 0	018A	RDB SW		E	O Bsw	DEAD CATA CUE COM		88A01080
0185 0	0240		DC		/0240	READ DATA SWS IOCC		8BA01090
0104.0		*						8BA01100
0186 0 0187 0	0700	DSW	DC		/0700	SENSE DSW IDCC		8BA01110 8BA01120
010.0	0000		DC		/ 00 00			8BA01130
0188 00	4C00012D	REST	BSC	L	BEGN	056740-		8BA01140
		*		_	DEGN	RESTART		8BA01150
018A 0	0000	BSW	DC		0	DATA SW STORAGE		8BA01160
018B 0	0000	DSWI	DC		0	IST DSW STORAGE		88A01170 8BA01180
018D O	0000	DSW2	DC		0	2ND DSW STORAGE		8BA01190
	0001	ONE •	DC		1	CONSTANT ONE		8BA01200
		*						8BA01210
		•						88A01220
	0000			Ε	0			8BA01230
	0009	PRARO			9	WORD COUNT		8BA01240 8BA01250
	3231 0404	PRAR1	DC DC		/3231	B A		88A01260
	0000		DC		/0A0A	0 0		8BA01270
C192 0	310A		DC		/0000 /310A	A 0		8BA01280
	0A01		DC		/0A01	0 1		0621CA88
	0000		DC		/000 0	-		8BA01300
	000 0 000 0	MCC	DC		/0000			88A01310 89A01320
	0000	MSG	DC DC		/0000			88A01330
			JC		/0000			8BA01340
								. =

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DATE EC NO.	•	28FEB66 415120	04NOV						PROG ID PAGE	08BA- 2
OICE C		0008		DC		/0008	8		8BA02020	
0100	-	0007		DC		/0007	7		8BA02010	
0108 0		0005		DC		/0006	6		8BA02000	
OLCA C		0004 0005		D C D C		/000 4 /000 5	۸ 5		88A0198 0 8BA0199 0	
01090		0003		DC		/0003	3		88A01970	
0108		0002		DC		/0002	2		8BA01960	
0107	0	0001	/*	D C		/0001	1		88A01950	
0106	0	000A	CODEH	סר		/000A	0		8BA01940	
			•			CUNVE	NJION TABLE		88A01930	
			*			CONVE	RSION TABLE		88A01910 88A01920	
0105 0)	0000	_	DC		0	•		8BA01900	
0104		0000	HEXCD			0	* PACKED CODED WORD		88401390	
•			•		-				88A01880	
01C4		0000	-	BSS	E	0			8BA01870	
J	-	-500	*			•			8BA01860	
0102		0000		DC		0	*		88A01850	
CICI	_	0000		DC		0	* WORD		8BA01840	
01BF 0		0000	HEX 00	DC		0	* UNPACKED CODED		88A01830	
0186 0		0000	HEXMD			0	WORD TO CONVERT		88A01810 8BA01820	
0125	•	0000	# #	nc		^	MODD TO CONVERT		8BA01800	
			*				CONSTANTS		8BAC1790	
			*				CONSTANTS		88A01780	
01BC (00	4C8001A4	_	BSC	I	HEXCV	RETURN TO USER	SX	88A01770	
	_		*						8BA01760	
0188		D009		STO		HEXCD+1			8BA01750	
OIBA		E804		OR		HEXO0			8BA01740	
0189		1008		SLA		8			8BA01730	
0188		C007		FD 210		HEXCO+1			8BA01720	
0186 C		E 80A D00C		OR S TO		HEXOD+2 HEXCD			8BA01700 8BA01710	
0185		1008		SLA		8			88A01690	
01E4 (COOD		LD		HEX00+3	PACK CODED WORDS		8BA01680	
			*						8BA01670	
01B3 (70F5		MDX		HEXC1			8BA01660	
0182	0	72FF		MDX	2	-1	CHECK IF DONE		88A01650	
0101	•	. 51.0	*	JLM					8BA01640	
01B1 (1010		SLA	LZ	16 HEXUU-I	JAVE /		88A01630	
		C70001C6 D60D01BE		L D S T O		CODEH HEXOO-1	GET CHARACTER SAVE /		8BA01610 8BA01620	
0140 (00	C 70001 C4	*	1.0	13	CUDEN	CET CHARACTER		8BA01600	
OLAB	00	67000000		FDX	L3	0	SET CODE TABLE INDEX		8BA01590	
OLAA (D001		STO		HEXC1+3	CET CODE TIME 11		8BA01580	
01A9 (1084	HEXC1			4	GET CHARACTER		8BA01570	
0148	0	1010		SIA		16	CLEAR A		8BA01560	
01A7		1890		SRT		16	SET IN Q		8BA01550	
0146	0	C017		LD		HE XWD	GET WORD TO CONVERT		8BA01540	
0 k m J	_	2201	*		-	•			8BA01530	
01A4 (6204	ne/ UV	LDX	2	-	CONVERSION INDEX	JL	88A01520	
0144	n	0000	# HEYCV	מר		0		SE	88A015 00 88A015 10	
			*			HEXAD	ECIMAL CONVERSION		88A01490	
			*			1,5010	ECTALL CONVECTION		88A01480	
01A3 (0	FFFF		DC		/FFFF			8BA01470	
01A2 (0000		DC		0			8BA01460	
01A1 (0000		DC		0			8BA01450	
01A0 (0000		DC		0			8BA01440	
019F		0000		DC		ŏ			8BA01430	
0196		0000		DC		0			88A01420	
C19D (0000		DC		0			88A01410	
019B (0000		DC DC		0			88A01390 88A01400	
019A (0000	OUTPT			0			68A01380	
0199	-	8121	OUT P1	_		/8121	TPWRITER MSG AREA		88A01370	
	_		*						8BA01360	
0198	2	FFFF	TERM	DC		/FFFF	TERMINATOR		8BA01350	

01CF (0009		DC		/0009	9		8BA02030
0100			DC		/0031	À		8BA02040
0101 0	0032		DC		/0032	8		8BA02050
0102 0	0033		DC		/0033	C		8BA02060
0103 (0034		DC		/0034	Ð		8BA02070
0104 0	0035		DC		/0035	E		88A02080
0105 (0036		DC		/0036	F		88A02090
		*						88A02100
		*						88A02110
		*			PRINT	ON 1443 PRINTER		88402120
		*			_			88402130
J106 0		PR43	DC		0	CET CENER TOCK	SE	88402140
0107			LD		SNSPR	GET SENSE LOCC		88A02150
01D8 C	D012		STO		SNSPR+1	SET		88A02160
		*						88A02170 88A02180
01D9 C	0810	•	XIO		SNSPR	CK FOR PRINTER READY		8BA02190
01D4 C			BSC		E	CK I DK TRIMER READI		8BA02200
OLDB C		WAIT3			3	PRINTER IS NOT READY		88A02210
0100			OIX		WRPR	WRITE		8BA02220
		*						8BA02230
01 DD (080C	PR431	OIX		SNSPR	WALT FOR NOT COMPLTE		8BA02240
OIDE C	1002		SLA		2			8BA02250
01DF (4810		BSC		-	IS PRINTER COMPLETE		88A02260
01E0 C	70FC		MDX		PR431	NO		88A02270
		*						8BA02250
01E1 (LD		SNSPR+1	GET IOCC		88A02290
01E2 (EOR		ONE	SET BIT 15		88A02300
01E3 C	D007		STO		SNSPR+1	SAVE		8BA02310
		*	~ • •		cc.	55465		8BA02320
01E4 C		PR432			SNSPR	SENSE		8BA02330
0165 0			SRA		1	TE BOTHTED BUCH		88402340
0166 (BSC MD/		E PR432	IS PRINTER BUSY YES		88A02350 88A02360
01E7 (TOPE	*	MUX		rn=32	123		88A02370
		*						88A02380
0168.0	0 4C8001D6	•	B SC	I	PR43	EXIT	SX	8BA02390
		*		-	•		•	8BA02400
		*			CONST	ANTS		8BA02410
		*						8BA02420
OLEA	0000		BSS.	E	0			8BA02430
OLEA C		SNSPR			/3700	SENSE IOCC		88A02440
OLEB C	0000		DC		0			8BA02450
		*						8BA02460
OIEC		MASKO			/FFFF	MASK IOCCS		8BA02470
01ED (0480		DC		/0480			
	reer	****	20					8BA02480
OIEE		MASK1			/FFFF			8BA02490
01EE 0			DC DC					8BA02490 8BA02500
		*			/FFFF			88A02490 88A02500 88A02510
01EF (0481	*	DC		/FFFF /0481	WOLTE INC		8BA02490 8BA02500 8BA02510 8BA02520
01EF 0	0481 018E	*	DC DC		/FFFF /0481 PRARO	HRITE IOCC		8BA02490 8BA02500 8BA02510 8BA02520 8BA02530
01EF (0481 018E	* * WRPR	DC		/FFFF /0481	WRITE IOCC		8BA02490 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540
01EF 0	0481 018E	*	DC DC		/FFFF /0481 PRARO /3500			8BA02470 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540 8RA02550
01EF 0	0481 018E	* * WRPR	DC DC		/FFFF /0481 PRARO /3500	NE TO CONVERT PRINTER		8BA02470 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540 8BA02550 8BA02550
01EF 0	0481 018E	* * WRPR *	DC DC		/FFFF /0481 PRARO /3500			8BA02470 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540 8RA02550
01EF 0	0 0481 0 018E 0 3500	* * WRPR * *	DC DC		/FFFF /0481 PRARO /3500	NE TO CONVERT PRINTER	SE	8BA02490 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540 8BA02550 8BA02560 8BA02560
01F0 C 01F1 C 01F2 C 01F3 C	0 0481 0 018E 0 3500 0 0000 0 1010	* * WRPR * *	DC DC DC		/FFFF /0481 PRARO /3500 ROUT I PACKE 0	NE TO CONVERT PRINTER D CODE TO PACKED TYPE	SE	8BA02470 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540 8BA02550 8BA02550 8BA02570 8BA02570
01F0 0 01F1 0 01F1 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 D036	* * WRPR * *	DC DC DC SLA STO		/FFFF /0481 PRARO /3500 ROUTI PACKE 0 16 LOXOO	NE TO CONVERT PRINTER D CODE TO PACKED TYPE CLEAR HALF WD SW	SE	8BA02490 8BA02500 8BA02510 8BA02520 8BA02530 8BA02530 8BA02550 8BA02560 8BA02570 8BA02590 8BA02590 8BA02600 8BA02610
01F0 0 01F1 0 01F1 0 01F2 0 01F3 0 01F4 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 D036 0 692E	* * WRPR * *	DC DC DC SLA STO STX		/FFFF /0481 PRARO /3500 ROUTI PACKS 0 16 LOXOO LOGC7+1	THE TO CONVERT PRINTER TO CODE TO PACKED TYPE CLEAR HALF WD SW SAVE IX 1	SE	8BA02490 8BA02500 8BA02510 8BA02520 8BA02530 8BA02540 8BA02550 8BA02560 8BA02570 8BA02580 8BA02590 8BA02600 8BA02610 8BA02620
01FF 0 01F1 0 01F1 0 01F2 0 01F3 0 01F5 0 01F6 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 D036 0 692E 0 6A2F	* * WRPR * *	DC DC DC SLA STO STX STX	2	/FFFF /0481 PRARO /3500 ROUTI PACKS 0 16 LOXOO LOGC7+1 LOGC8+1	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2	SE	8BA02470 8BA02500 8BA02510 8BA02520 8BA02530 8BA02550 8BA02550 8BA02560 8BA02570 8BA02580 8BA02590 8BA02600 8BA02600 8BA02610 8BA02620 8BA02630
01F0 0 01F1 0 01F2 0 01F3 0 01F4 0 01F6 0 01F7 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 0036 0 692E 0 682F	* * WRPR * *	DC DC DC SLA STO STX STX	2 3	/FFFF /0481 PRARD /3500 ROUT I PACKS 0 16 LOXOO LOGC 7+1 LOGC 8+1 LOGC 9+1	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3	SE	8BA02470 8BA02510 8BA02510 8BA02520 8BA02530 8BA02540 8BA02550 8BA02570 8BA02570 8BA02580 8BA02580 8BA02610 8BA02610 8BA02620 8BA02620 8BA02630 8BA02640
01F0 0 01F1 0 01F1 0 01F2 0 01F3 0 01F4 0 01F5 0 01F7 0 01F8 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 D036 0 692E 0 682F 0 6830 0 67000000	* WRPR * LOGC	DC DC DC SLA STO STX STX LDX	2 3 L3	/FFFF /0481 PRARO /3500 ROUTI PACKS 0 16 LOXOO LOGC7+1 LOGC8+1 LOGC9+1 /0000	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3 IX 3 = MSG WORD	SE	8BA02470 8BA02510 8BA02510 8BA02520 8BA02520 8BA02540 8BA02550 8BA02570 8BA02570 8BA02580 8BA02580 8BA02610 8BA02620 8BA02620 8BA02630 8BA02640 8BA02630
01F0 0 01F1 0 01F1 0 01F2 0 01F3 0 01F4 0 01F6 0 01F6 0 01F8 0	0 0481 0 018E 0 3500 0 0000 1 1010 0 D036 0 692E 0 682F 0 6830 0 67000000 0 C700018F	* * WRPR * *	DC DC DC SLA STO STX STX LDX LD	2 3 L3	/FFFF /0481 PRARO /3500 ROUTI PACKE 0 16 LOXOO LOGC7+1 LOGC8+1 LOGC9+1 /0000 PRAR1	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3 IX 3 = MSG WORD GET WD TO CONVERT	SE	8BA02470 8BA02510 8BA02510 8BA02520 8BA02530 8BA02550 8BA02550 8BA02560 8BA02580 8BA02580 8BA02600 8BA02610 8BA02640 8BA02640 8BA02640 8BA02640 8BA02640
01F0 0 01F1 0 01F1 0 01F2 0 01F3 0 01F4 0 01F7 0 01FA 0 01FA 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 D036 0 692E 0 6A2F 0 6B3U 0 6700000 0 C700018F 0 D02F	* WRPR * LOGC	DC DC SLA STO STX STX STX LDX LD STO	2 3 L3 L3	/FFFF /0481 PRARO /3500 ROUTI PACKE 0 16 LOXOO LOGC 7+1 LOGC 8+1 LOGC 9+1 /0000 PRAR1 LOXO2	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3 IX 3 = MSG WORD	SE	8BA02490 8BA02500 8BA02510 8BA02520 8BA02530 8BA02530 8BA02550 8BA02560 8BA02570 8BA02590 8BA02600 8BA02610 8BA02610 8BA02650 8BA02650 8BA02650 8BA02660 8BA02650 8BA02660
01F2 01F3 01F4 01F4 01F4 01F4 01F4 01F4 01F4 01F4	0 0481 0 018E 0 3500 1 0000 1 100 0 036 0 692E 0 6A2F 0 6830 0 67000000 0 700018F 0 02F 0 F4000198	* WRPR * LOGC	DC DC DC SLA STO STX STX LDX LDX LDX EOR	2 3 L3	/FFFF /0481 PRARO /3500 ROUTI PACKE 0 16 LOXOO LOGC7+1 LOGC8+1 LOGC9+1 /0000 PRAR1 LOXO2 TERM	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3 IX 3 = MSG WORD GET WD TO CONVERT	SE	8BA02470 8BA02510 8BA02510 8BA02520 8BA02530 8BA02550 8BA02550 8BA02560 8BA02570 8BA02570 8BA02580 8BA02610 8BA02610 8BA02620 8BA02640 8BA02650 8BA02650 8BA02650 8BA02650
01F0 0 01F1 0 01F2 0 01F3 0 01F4 0 01F6 0 01F6 0 01FC 0 01FF 0	0 0481 0 018E 0 3500 0 0000 0 1010 0 036 0 692E 0 6830 0 6700000 0 0 0700018F 0 002F 0 0 F4000198 4818	* WRPR * LOGC	DC DC SLA STO STX STX LDX LD STO STX STX LDX LD STO STX STX LDX LD STO STO STX STX LDX LD STO STO STX LDX LD STX LD	2 3 L3 L3	/FFFF /0481 PRARD /3500 ROUTI PACKS 0 16 LOXOO LOGC7+1 LOGC8+1 LOGC9+1 /0000 PRARI LOXO2 TERM +-	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3 IX 3 = MSG WORD GET WD TO CONVERT SAVE	SE	8BA02490 8BA02510 8BA02510 8BA02520 8BA02530 8BA02540 8BA02550 8BA02570 8BA02570 8BA02570 8BA02590 8BA02610 8BA02610 8BA02620 8BA02620 8BA02640 8BA02640 8BA02640 8BA02640 8BA02640 8BA02650 8BA02650 8BA02660 8BA02660 8BA02660
01F2 01F3 01F4 01F4 01F4 01F4 01F4 01F4 01F4 01F4	0 0481 0 018E 0 3500 0 0000 0 1010 0 036 0 692E 0 6830 0 6700000 0 0 0700018F 0 002F 0 0 F4000198 4818	* WRPR * LOGC	DC DC DC SLA STO STX STX LDX LDX LDX EOR	2 3 L3 L3	/FFFF /0481 PRARO /3500 ROUTI PACKE 0 16 LOXOO LOGC7+1 LOGC8+1 LOGC9+1 /0000 PRAR1 LOXO2 TERM	CLEAR HALF WD SW SAVE IX 1 SAVE IX 2 SAVE IX 3 IX 3 = MSG WORD GET WD TO CONVERT	SE	8BA02470 8BA02510 8BA02510 8BA02520 8BA02530 8BA02550 8BA02550 8BA02560 8BA02570 8BA02570 8BA02580 8BA02610 8BA02610 8BA02620 8BA02640 8BA02650 8BA02650 8BA02650 8BA02650

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88A03390 88A03400 88A03410

8BA03410 8BA03420 8BA03440 8BA03450

8BA03460 8BA03470 8BA03490 8BA03500 8BA03510 8BA03550 8BA03550 8BA03550 8BA03550 8BA03570 8BA03570 8BA03600 8BA03610 8BA03610 8BA03660 8BA03660 8BA03670 8BA03670 8BA03670 8BA03670 8BA03770 8BA03890 8BA03890 8BA03890 8BA03890

8BA03900 8BA03910 8BA03930 8BA03940 8BA03950 8BA03960 8BA03980 8BA03980 8BA04000 8BA04000

88A04020 88A04030 88A04040 88A04050 88A04060

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IBM MAINTENANCE D	AGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2183238 PAGE 3	ı	IBM MAINTENANCE DIA	GNOSTIC PROGRAM FOR TH	IE 1800 SYSTEM
SENSE DSW EXERCISE	R		!	SENSE DSW EXERCISER	t	
0201 0 CO2A	LOGC2 LD LOXO2 GET WD	8BA02710		023E 0 C409	DC /C400	0
0202 0 1800	SRA 12 SAVE ZONE	8BA02720		023F 0 9A00	PRO1 DC /9A00	<u>5</u>
0203 0 D001 0204 00 65000000	STO LOGC3+1 LOGC3 LDX L1 0	88A02 730 8BA02 740		0240 0 9E00 0241 0 8200	DC /9E00 DC /8200	T U
0206 00 C500022E	LD LI LOXO4 GET ADRS OF ZONE	8PA02750		0241 0 B200	DC /8600	v
0208 0 D007	STO LOGC5+1 SAVE	8BAC2760		0243 0 9200	DC /9200	ŭ
0209 0 CO22	LD LOXO2 GET WD TO CONVERT	88A02770	i 1	0244 0 9600	CC /960 0	X
020A 0 1004	SLA 4 SAVE POSITION	8BA02780	İ	0245 O A600	DC /A600	Y
C20B 0 180C	SRA 12	8BA02790	1	9246 0 A200	DC /A200	2
020C 0 D001	STO LOGC4+1	8BA02800		0247 0 2100	DC /2100	BLANK
020D 00 66000000	LOGC4 LDX L2 O IX 2 = POSITION LOGC5 LD L2 O GET TYPEWRITER CODE	8BA02810	i	0248 0 BE00 024 9 0 7 E00	PRO2 DC /BE00	-
020F 00 C6000000 0211 00 7400022B	LOGC5 LD L2 O GET TYPEWRITER CODE MDX L LOXOO,O IS THIS FIRST HALF	8BA02820 8BA02830		0249 0 7E00 0248 0 5A00	DC /7E00 DC /5A00	J K
0213 0 7007	MDX LOGC6 NO	88A02840	İ	024B 0 5E00	DC /5E00	î
0214 0 D018	STO LOXO3 YES	8BA02850	1	0240 0 7200	DC /7200	Ň
0215 00 74 01022B	MDX L LOXOO,1 SET TO SECOND HALF	8BA02860	1	024D 0 7600	DC /7600	N
0217 0 C014	LD LOXO2 GET WD TO CONVERT	8BA02870		024E 0 5200	DC /5200	0
0218 0 1008	SLA B SET TO SECOND HALF	88A02880	!	024F 0 5600	DC /5600	P
0219 0 D012	STO LOXO2 SAVE MDX LOGC2 GO CONVERT	8BA02890	i	0250 0 6600	DC /6600	9
021A 0 70E6	MDX LOGC2 GO CONVERT	88A02900 88A02910	ŧ	0251 0 6200 0252 0 4200	DC /6200 DC /4200	K
	* SECOND HALF WORD	8BA02920		0252 0 4200	DC /4000	-
	*	8BA02930		0254 0 0600	DC /0600	•
0218 0 1808	LOGC6 SRA 8 MOVE TO SECOND HALF	8BA02940		0255 O 3E00	PRO3 DC /3E00	A
021C 0 F010	EOR LOXO3 COMBINE WITH FIRST	88A02950		0256 O 1A00	DC /1A00	8
021D 00 D700019A	LOGCB STO L3 DUTPT SET IN MSG	8BA02960		0257 0 1E00	DC /lE00	C
021F 0 1010	SLA 16	8BA02970	•	0258 0 3200	DC /3200	D
0220 0 D00A 0221 0 7301	STO LOXOO SET TO FIRST HALF MDX 3 1 IX 3 = NEXT WD	88A02980 8BA02990	1	0259 0 3600 025 A 0 1200	DC /3600 DC /1200	t E
0222 0 70D7	MDX LGGC1 CONVERT NEXT WD	8BA03000		0258 0 1600	DC /1600	ē.
	*	8BA03010		0250 0 2600	DC /260 0	H
	* FOUND A TERMINATOR	8BA03020	•	025D 0 2200	DC /2200	Ī
	•	8BA03030	5	025E 0 8100	PRSD DC /8100	CARRIAGE RETURN
0223 00 65000000	LOGC7 LDX L1 0 RESTORE IX 1	8BA03040			•	
0225 00 66000000	LOGGO LOX L2 O RESTORE IX 2	8BA03050			* TYP	EWRITER ROUTINE
0227 00 67000000 0229 00 4C00025F	LOGC9 LDX L3 O RESTORE IX 3 BSC L LOGOO GO PRINT	88A03060 88A03070		025F 0 0824	LOGOO X10 SENSE	SENSE FOR READY
0227 00 1000027.	*	8BA0308Q		0260 0 180A	SRA 10	SENSE FOR READY
	* CONSTANTS	8BA03090		0261 0 4804	BSC E	
	•	8BA03100			*	
0228 0 0000	LOXOO DC O HALF WORD SW	8BA03110		0262 0 3004	WAIT4 WAIT 4	TYPEWRTR IS NOT READY
02 2C 0 00 00	LOX 02 DC 0 TEMP STORAGE FOR	8BA03120		02/2 0 1010	*	
022D 0 0000	WORD TO CONVERT LOXO3 DC O TEMP STORAGE FOR	8BA03130		0263 0 1010	SLA 16	CLEAR HALE UP CH
0220 0 0000	* TYPEWRITER CODE	88A03140 88A03150		0264 0 D022 0265 0 6300	STO WRDSW LDX 30	CLEAR HALF WD SW
022E 0 0234	LOXO4 DC PROO ADRS OF ZONE O	8BA03160		0203 0 0300	*	
022F 0 023D	DC PRO1-2 ADRS OF ZONE 1	8BA03170		0266 00 C7000199	LOGO1 LD L3 OUTP1	GET PRINT WD
0230 0 0248	DC PRO2 ADRS OF ZONE 2	8BA03180		0268 0 DO1D	STO IDARA	SET IN DUTPUT AREA
0231 0 0254	DC PRO3-1 ADRS OF ZONE 3	8BA03190			*	
	•	8BA03200		0269 00 F4000198	EOR L TERM	CK FOR TERMINATOR
	•	8BA032 10 8BA032 20		026B 00 4C18027F	BSC L LUGO2,+-	EXIT
0232 0 CO2B	LOGCA LD PRSP GET CARRIAGE RETURN	8BA03230			* DUT	PUT A CHARACTER
0233 0 70E9	MDX LOGCB	8BA03240			*	TOT A GIANAGUEN
	•	8BA03250		026D 0 0814	XIOWR XIO WRITE	WRITE CHARACTER
	PRINTER CODE TO TYPEWRITER	8BA03260			•	
	CODE CONVERSION TABLE	8BA03270	1	026E 0 0815	XIOSN XIO SENSE	CHECK BUSY
0234 0 2100	PROO DC /2100 BLANK	8BA032 80	1	026F 0 180B	* CDA 11	
0235 0 FC00	DC /FC00 1	8BA03290 8BA03300	1	0270 0 4804	SRA 11 BSC E	
0236 0 D800	DC /D800 2	6BA03310		6271 0 70FC	MDX XIOSN	BUSY
0237 0 DC00	DC /DC00 3	8BA03320			•	
0238 0 F000	DC /F000 4	8BA03330	1		•	
0239 0 F400	DC /F400 5	8BA03340			▼ CHE	CK FOR 1ST 1/2 WORD
023A 0 D000 023B 0 D400	DC /D000 6 DC /D400 7	8BA03350 8BA03360		0272 0 C014	# ID UDDEN	CET 1/2 HODD C
023C 0 E400	DC /E400 8	88A03370		0272 0	LD WRDSW BSC E	GET 1/2 WORD SWITCH SKIP = FIRST HALF
023D O E000	DC /E000 9	8BA03380	!	0274 0 7006	MDX LOGO3	GO SETUP FOR NEXT WD
	•			· · · · · · · ·		
			ı			
DATE 28FEB66 EC NO. 415120		PROG ID 08BA-0		DATE 28FEB66	04N0V66	
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SENSE DSW EXERCISER

88A04070 8BA04080 SET UP FOR 2ND 1/2 WORD 8BA04090 8BA04100 0275 0 CO10 IOARA GET WORD IN ID AREA 8BA04110 0276 0 1008 SLA POSITION 2ND 1/2 WD 8BA04120 0277 0 DOOE STO IDARA 8BA04130 0278 00 74010287 MDX WRDSW,1 BUMP WORD SWITCH 8BA04140 027A 0 70F2 MDX XIOWR GO WRITE 2ND 1/2 WD 8BA04150 8BA04160 SET UP FOR NEXT WORD 8BA04170 8BA04180 C27B 0 7301 LOGO3 MDX 3 1 NEXT WORD INDEX 8BA04190 0270 00 74010287 MDX L WRDSW,1 BUMP WORD SW 8BA04200 027E 0 70E7 MDX LOGO1 GO GET NEXT WORD 8BA04210 8BA04220 EXIT 8BAU4230 8BA04240 027F 00 4C8001F2 LOGO2 BSC I LOGC EXIT SX 8BA04250 8BA04260 CONSTANTS 8BA04270 8BA04280 C282 0000 BSS C Ε 86A04290 0282 0 0286 WRITE DC IDARA WRITE IOCC 8BA04300 0283 0 0902 /0902 DC 8BA04310 0284 0 0000 SENSE DC /0000 SENSE TOCC 8BA04320 0285 0 0F03 /0F03 DC 8BA04330 0286 0 0000 IDARA DE 0 **OUTPUT AREA** 88A04340 0287 0 0000 WRDSH DC O HALF WORD SW 8BA04350 0288 0120 END BEGN 8BA0435 8BA04360

PROG ID 088A-0

SENSE DSW EXERCISER

CROSS REFERENCE LISTING SYMBOL VALUE REFERENCES 012D BEGN 0188,0288 BPAS1 017F 016A, 017C AS W 018A 0138,0140,014E,0168,0176,0184 RYPAS 0137 0143,0154 CODEH 0106 OIAD DSW 0186 0135,0139,013A,013B,013D,0157,0159,015A,015C,015F, 0160,017F,0181,0182 013E,0144,015B,0162,0166,016C DSW2 018C 0161,0165 0149,0171,0187,0188 HEXCD 0104 0147,016F,01BC HEXCV 0144 HEXC1 0149 C1AA, 01B3 HEXWD 018E 0145,016D,01A6 HEX00 OIBF 01AF, 01B4, 01B6, 01B8, 01BA ICARA 0286 0268,0275,0277,0282 LOGC 01F2 0152,017A,027F LOGCA 0232 LOGCE 021D 0233 LOGC 1 OIFA 0222 LOGC2 0201 0214 LOGC3 0204 0203 LOGC4 020D 020C LOGC5 020F 0208 LOGC6 021B 0213 LOGC 7 0223 01F5.0200 LOGC8 0225 01F6 LOGC9 0227 01F7 LOGOO 025F 0229 LOGOI 0266 027F LOG02 027F 026B LDG03 027B 0274 FOXOO 022B 01F4,0211,0215,0220 LOX02 022C 01FC,0201,0209,0217,0219 LOX03 022D 0214,0210 LOXO4 022E 0206 MASKO OIEC 012D MASK1 OIEE 012F MSG 0196 0148,0173 CNE 018D 0158,0180,01E2 OUTPT 0194 0210 CUT P1 0199 0266 PRARO 018F 01F0 FRARI 018F OIFA PRINT 013F PRSP 0232 PRO0 0234 022E PRO1 023F 022F PRO2 0248 0230 PRO3 0255 0231 PR143 0155 0151 PR 4 3 0106 0155,017D,01E8 PR431 0100 01E0 PR432 01F4 01E7 PR433 0170 RDBSW 0184 0137, 013F, 014D, 0167, 0175 REST 0188 0131 SENSE 0284 025F, 026E SNNRS 015C 0163,0183 SNSPR 01D7,01D8,01D9,01DD,01E1,01E3,01E4 OIEA START 0134 TERM 0198 01FD, 0269 ITI AW 0136 3001 WAIT2 013C 3002 WAIT3 CIDB 3003 WAIT4 0262 3004

DATE 28FEB66 04NDV66 EC NO. 415120 415233

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IBM MAINTENANCE DIAGNUSTIC PROGRAM FOR THE 1800 SYSTEM

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SENSE DSW EXERCISER

WRDSW	0287	0264, 0272, 0276, 0276
WRITE	0282	026D
MRPR	01F0	01DC
XIOSN	026E	0271
XIOWR	026D	0274

DATE 28FE866 04NDV6

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM CORE ADJUSTMENT PROGRAM - PID CO AND C1.

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM CORE ADJUSTMENT PROGRAM - PID CO AND C1.

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PARAGRAPH PAGE 4.0 PRINTOUTS (NONE) _ 6.0 APPENDIX (NCNE)

· 1.0 PURPOSE

TO PROVIDE THE CUSTOMER ENGINEER WITH A PROGRAM THAT SETS CORE TO SELECTED PATTERNS TO ALLOW V (REF) TO BE OPTIMIZED AS SPECIFIED ON LOGIC PAGE SA022 (SJ-2 ADJUSTMENT PRECEETERE) OR LOGIC PAGE SDOIL (SJ-4 ADJUSTMENT PROCEDURE).

2.0 PRERCUISITES

EQUIPMENT RECLIREMENT

1442 CARD READ-PUNCH DR 1054 PAPER TAPE READER.

PROGRAM REQUIREMENT

1800 BASIC DIAGNOSTIC LOADER.

3.0 USE PROCEDURE

3.1 LCADING

TWO PROGRAM DECKS ARE PROVIDED. THE ONLY DIFFERENCE BETWEEN THE TWO DECKS IS THE CORE LOCATIONS INTO WHICH THEY ARE LOADED. THE FIRST DECK (C8CO-LEW CERE ADJUSTMENT PROGRAM) LOADS INTO THE LAST 2K OF LOWER 32K CORE AND IS USED TO ADJUST THE FIRST 8K OF CORE. (NOTE. THE FIRST DECK IS ASSEMBLED FOR A 32K MACHINE, THE USER SHOULD IGNORE HIGHER CRDER BITS WHEN REFERENCING THE LISTING AND DOCUMENTATION. 1

THE SECOND DECK (GEC1 -- HIGH CORE ADJUSTMENT PROGRAM) LOADS INTO THE FIRST 2K OF CORE AND IS ONLY USED TO ADJUST ABOVE 8K. (THIS DECK IS NOT USED IF THE MACHINE HAS 8K OR LESS.)

CLEAR ALL STORAGE PROTECTION BITS BEFORE LOADING EITHER PROGRAM. SET SENSE/PROGRAM SWITCHES TO 00. SEE 1800 BASIC DIAGNOSTIC LOADER DOCUMENTATION FOR LOADING PROCEDURE.

- 3.2 **OPERATING**
- 3.2.1 SELECT THE PROGRAM DECK THAT IS REQUIRED FOR THE 8K WHICH IS ASSOCIATED WITH THE V(REF) POTENTIOMETER THAT IS TO BE ADJUSTED. (SEE SECTION 3.1.1 FOR DECK SELECTION. 1
- 3.2.2 LOAD PROGRAM WITH SENSE/PROGRAM SWITCHES SET TO 00. (SEE LCGIC PAGE SAD22 DR SD011, FIGURE 1 FOR V(Z) VALUE.) PERCENT. (SEE LOGIC PAGE SA022 OR SD011, FIGURE 1 FOR V(Z) VALUE.) PROGRAM WILL STOP AT WAIT 1.
- 3.2.4 SET SENSE/PROGRAM SWITCHES TO 01. (SELECTING BEST CASE PATTERN .)
- 3.2.5 SET MODE SWITCH TE PRUN.

SET WRITE STORAGE PROTECT SWITCH TO "YES". SET CHECK STOP SWITCH TO "ON". DEPRESS THE RESET PUSHBUTTON. DEPRESS THE START PUSHBUTTON.

3.2.6 PREGRAM COMPLETED AT WAIT 2.

SET MODE SWITCH TO 'DISPLAY'. SET WRITE STORAGE PROTECT SWITCH TO *NC*. WHILE FOLDING DOWN THE CLEAR STORAGE PUSHBUTTON DEPRESS THE START PUSHBUTTON.

3.2.7 LOWER V(REF) UNTIL A PARITY FAILURE OCCURS.

RECORD THE VALUE OF V(REF).

- 3.2.8 SET SENSE/PROGRAM SWITCHES TO 01.
- 3.2.9 SET V(REF) TO A POINT WITHIN THE OPERATABLE RANGE AND REPEAT STEPS 3.2.5 AND3.2.6.
- 3.2.10 RAISE V(REF) UNTIL A PARITY ERROR OCCURS. RECORD THE VALUE OF V(REF).
- 3.2.11 SET SENSE/PROGRAM SWITCHES TO 02. (SELECTING COMPLEMENT BEST CASE PATTERN).
- 3.2.12 SET V(REF) TO A POINT WITHIN THE OPERATABLE RANGE AND REPEAT STEPS 3.2.5, 3.2.6, AND 3.2.7.
- 3.2.13 SET SENSE/PROGRAM SWITCHES TO 02. «SELECTING COMPLEMENT BEST CASE
- 3.2.14 SET V(REF) TO A POINT WITHIN THE OPERATABLE RANGE AND REPEAT STEPS 3.2.5, 3.2.6, AND 3.2.10.
- 3.2.15 SET V(Z) AT V(Z) NOMINAL+6 PERCENT.
- 3.2.16 REPEAT SETS 3.2.4 THROUGH 3.2.14 FOR THIS VALUE OF V(Z).
- 3.2.17 TAKE THE FIGHEST OF THE 4 VALUES OF V(PEF) FOUND BY LOWERING V(REF) AND THE LOWEST OF THE FOUR VALUES OF V(REF) FOUND BY RAISING V(REF). SET V(REF) TO THE VALUE WHICH IS THE AVERAGE OF THESE TWO VOLTAGES.
- 3.2.18 REPEAT STEPS 3.2.1 THROUGH 3.2.17 UNTIL ALL V(REF) POTENTIOMETERS HAVE BEEN ADJUSTED.
- SENSE/PROGRAM SWITCHES

SETTING 01

MEANING

RUN EEST CASE PATTERN. A WAIT WILL OCCUR AFTER THE PATTERN HAS BEEN SET UP TO ADJUST V(REF).

RUN COMPLEMENT BEST CASE PATTERN. A WAIT WILL OCCUR 02 AFTER THE PATTERN HAS BEEN SET UP TO ADJUST V(REF). DETERMINE AN UPPER LIMIT.

- 3.4 WAITS
- 3.4.1 NORMAL WAITS

PROGRAM WAITS ARE IDENTIFIED BY THE B AND I REGISTER AND ARE FOUND AT THE BEGINNING OF THE LISTING.

- 3.4.2 ERROR WAITS (NONE)
- RESTART PROCEDURE. DEPRESSING "RESET" AND THE "START" PUSHBUTTON

28FEB66 01JUL66 05.14 NAT 14N0V69 415120 415178 411731 431319

0800-*

EC NO.

415120

01JUL66 415178

05JAN67 14NCV69 411731 431319

PROG ID **08C0-**≠ CORE ADJUSTMENT PROGRAM - PID CO AND C1.

WILL CAUSE THE PROGRAM TO BE RE-ENTERED AND THE SENSE/PROGRAM SWITCHES READ.

4.0 PRINTOUTS (NONE)

5.0 COMMENTS

- PATTERNS 5.1
- 5.1.1 BEST CASE PATTERN. FOR EACH ADDRESS BIT 7 IS EXCLISIVE CRED WITH BIT 9. IF THE RESULT IS A ONE, FFFF IS WRITTEN INTO THAT ADDRESS. IF THE RESULT IS A ZERC, 0000 IS WRITTEN INTO THAT ADDRESS.

THIS SHOULD SET UP GROUPS OF 64 POSITIONS OF EITHER ONES OR ZERDS IN THE FOLLOWING MANNER. SELECT X AND Y LINE ADDRESSES TO DETERMINE THE VALUE SET.

BIT VALUE FOR BEST CASE PATTERN

.X- LINE ADRS	.Y- LINE	ADDRESS.Y- LINE	ADDRESS
•	•	-0111111.1000000	•
.0 0 0 0 0 0 0 0 .0 0 0 0 0 0 0 0 0 0 0	- 0 - 0 - 1 - 1 - 0 - 0	• • • • • • • • •	1 1 0 0 0 1 1
AUX2 AUX3 100000 100001 100001 1100001 111111	. 0 . 0 . 1 . 1 . 0	•	1 1 0 0 0 1

- 5.1.2 COMPLEMENT BEST CASE PATTERN. CORE IS SET UP AS SPECIFIED BY 5.1.1, THEN THE CONTENTS OF EACH CORE LOCATION ARE COMPLEMENTED.
- SUBROUTINES 5.2
- 5.2.1 BEST CASE PATTERN AND COMPLEMENT BEST CASE PATTERN SUBROUTINE (BCP).

THIS SUBROUTINE IS ENTERING WITH INDEX REGISTER 1 SET TO 0000 AND INDEX REGISTER 2 SET TO FFFF TO SET UP THE BEST CASE PATTERN AND INDEX REGISTER 1 SET TO FFFF AND INDEX REGISTER 2 SET TO 0000 TO SET UP THE COMPLEMENT BEST CASE PATTERN. SYMBOLIC LOCATION *PLOC* CONTAINS THE STARTING LOCATION OF AREA WHERE THE PATTERN IS TO BE SET UP. INDEX REGISTER 3 CONTAINS A COUNT OF THE NUMBER OF CORE WORDS TO BE SET UP.

5.2.2 SET STORAGE PROTECTION BITS SUBROUTINE (SPV).

THIS SUBROUTINE SETS SPV BITS IN THOSE CORE LOCATIONS WHICH CONTAINS FFFF. INDEX REGISTER 1 CONTAINS THE STARTING LOCATION OF THE AREA WHERE THE PATTERN IS SET UP.

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2 A

BECAUSE OF THE ODD PARITY PESTRICTION IMPOSED BY THE HARD-WARE.

CONTAINED IN THE PATTERN AREA.

CNLY 17 BITS CAN BE ON OR OFF IN ANY CORE LOCATION. HOWEVER EXECUTING THE COMPLEMENT OF A PATTERN CAUSES THE PARITY BIT TO BE COMPLETELY CHECKED.

INDEX REGISTER 3 CONTAINS A COUNT OF THE NUMBER OF CORE WORDS

6. APPENDIX (NONE)

---- LAST PAGE ----

### WAITS ####################################	PART NO	0. 2183
1800 CORE ADJUSTMENT PROGRAM 1800 CORE ADJUSTMENT PROGRAM 1100 CORE ADJUSTMENT PROGRAM	PAGE	
1800 CODE ADJUSTMENT PROGRAM CODE		
NOTES	AM SWS 8C000720	
### NOTES ####################################	8C000730 W TO 8C000740	
Departs Depa	** 8C000750	
OPERATOR SHOULD CLEAR 86000110 SPET NOT THE BEFORE 8C000110 SPET NOT THE BEFORE 8C000110 SPET WASTES STORAGE PROTECT 8C000110 SPET WASTES STORAGE PROTECT 8C000110 SPET WASTES STORAGE PROTECT 8C000110 DESCRIPTION FOODMAN AND 8C000210 TO NO WHITE ADJUST IND 8 C000210 DI SET UT REST CASE 8C00210 DI SET UT REST CASE 8C00220 DI SET UT CONCERNINT 8C000210 DI SET UT REST CASE PATTERN 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET UT CONCERNINT 8C000210 DI SET WASTES STORAGE 8C000210	8C000760	
SEV BITS EACH TIME DEFORM (CO0014) TO LOUR STORY TO ON. (CO0014) TO LOUR STORY TO ON. (CO0014) TO LOUR STORY TO ON. (CO0014) TO LOUR STORY TO ON. (CO0014) TO LOUR STORY TO ON. (CO0014) TO LOUR STORY	ET 8C000770 8C000780	
SET CADDED SET OF STOP STOP ON SCOODING SET OF STOP ON SET OF STOP	8C000790	
SET CK STOP 5W TO DN. SET WRITE STORAGE PROTECT: SENTICH FOR SPORT RECOURTING SENTICH FOR FOR RECOURT RECOURTING PROCRAM AND SCOODSOO TO NO MILE AUJUSTING OLIST LIPEST CASE RECOURTS SENSE/PROCRAM SW SETTINGS RECOURTS OLIST LIPEST CASE RECOURTS RECOURTS OLIST LIPEST CASE RECOURTS OLIST LIPEST CASE RECOURTS RECOURTS OLIST LIPEST CASE RECOURTS RE	8C000810	
SET WITE STORAGE PROTECT SECOULD SEXECUTING PROBERAM AND 8.0000100 SEXECUTING PROBERAM AND 8.0000100 V REF. SECOULD V REF.	8C000820 8C000830	
SHITCH TO YES FOR \$0000200 \$10000000 \$100000000 \$100000000 \$100000000 \$1000000000 \$10000000000		
TO MR WHILE ADJUSTING SCO00210 V REF. 8C000220 D SCO0020 D CORP. 1 CORP. PLD V REF. 8C000220 D CORP. SENSE/PROGRAM SM SETTINGS RC000220 D CORP. SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE RC000220 D TOOL 0 61.00 START LID 1 TOCKKEL SET CRIL INDIVIDUAL TORS SET UP REST CASE REST BUTTON RC000230 D TOOL 0 61.00 START LID 1 TOCKKEL SET UP REST CASE REST BUTTON RC000230 D TOOL 0 61.00 START LID 1 TOCKKEL SET UP REST LID 1 TO TOC	8C000860	
V REF. SCO00220 SENSE/PROGRAM SW SETTINGS SCO00220 CONCESSION CONCESSIO	8C000870 8C000880	
SENSE/PROGRAM SY SETTINGS 8C000250 B C000250 B		
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PATTERN 8C000250 7801 0 6100 START LDX 1 0 SET CTRL INDICATE 1 1 0 SET	* 8C000920 *********	
O2 SET UP COMPLEMENT SC000300 Page SC000300 Page SC000300 Page SC000300 Page SC000300 Page	(1 8C000940	
## SC00310 7894 0 7500 1000 STGL PMOX LI 1/1000 ADVANCE CONTINUES SC00320 7806 0 1000 T807 0 1010 SLA 1 6 CLEAR ACCUMU T808 0 1000 T807 0 1010 SLA 1 6 CLEAR ACCUMU T808 0 1000 T809 0 1	DRESS 8C000960	
SCO00320 T807 0 1010 SLA 16 CLEAR ACCUMULATOR SHOWS SCO00420 T807 0 1010 SLA 16 CLEAR ACCUMULATOR SHOWS SCO00420 T808 0 0 100 T808 0 0	8C000970 DL INDEX 8C000980	
### SECONS TROS O LEF STO 1 - 1 IN AK CORE BIT STO S		
### NAITS ************************************	DCK MAX ADDR 8C001010	
## DC WAITIEL SELECT PATTERN ## \$6000370 D	8C001020 ADDRESS DATA 8C001030	
SET PATTERN NUMBER 8C000400 D 7800 0 71FF	ZERO 8C001040	
# DESTRED PATTERN 8C000420 # MAXIMUM ADDRE IN SENSE/PROG SMS 8C000420 # 8C000	80001060	
IN SENSE/PROG SWS 8C000430 8C000430 8C000430 8C000430 8C000440 8C000440 8C000450 8C000450 8C000450 8C000450 8C000450 8C000450 8C000450 8C000450 8C000470 8C000450 8C000470 8C000470 8C000470 8C000470 8C000470 8C000470 8C000470 8C000470 8C000470 8C000530 8C000530 8C000530 8C000530 8C000530 8C000530 8C000530 8C000550 8C0		
DEPRESS RESET BUTTON 8C000440 8C000450 DEPRESS START BUTTON 8C000450 BC000470 NOTE— ACCUMULATOR 8C000470 THE PRESENT SENSE/ PROGRAM SHITCHES BC000500 THE PROGRAM SHITCHES BC000520 DC WAIT261 PROGRAM COMPLETED BC000550 T811 0 CC00 7898 SETLK LDD L LINK LOAD RESTART LIN THE PRESENT SENSE/ BC000520 T813 0 DC00 0000 T815 0 1010 SLA 16 CLEAR A REG BC000550 T816 0 D400 78AA STO L X3CTL RESET CTRLS T816 0 D400 78AA STO L X3CTL RESET CTRLS T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 2C40 0000 T818 0 D001 T819 0 CSP61 GET CLEAR ALL SPAN TRANSPORT TR	8C001090	
DEPRESS START BUTTON 8C000450	NIT 8C001110	
* NOTE— ACCUMULATOR 8C000480 * SHOWS THE SETTING OF 8C000490 * THE PRESENT SENSE/ 8C000500 * THE PRESENT SENSE/ 8C000510 * THE PRESENT SENSE/ 8C000510 * THE PRESENT SENSE/ 8C000520	8C001120 8C001130	
* SHOWS THE SETTING OF SCO00490 THE PRESENT SENSE/ BC000500 THE PRESENT SENSE/ BC000510 THE PRESENT SENSE/ BC000510 THE PROGRAM SWITCHES BC000520 THE PROGRAM SWITCHES BC000520 THE PROGRAM SWITCHES BC000520 THE PROGRAM COMPLETED BC000520 THE STO L VACTULE RESET CIRLS BC000530 THE STO L VACTULE RESET CIRLS BC000550 THE STO L VACTU	AGE 8C001140 8C001150	
* PROGRAM SWITCHES 8C000510 7813 0 DC00 0000 STD L 0 * WITHOUT COR 8C000520 8C000520 8C000530 7815 0 1010 SLA 16 CLEAR A REG 8C000530 7816 0 D400 78AA STO L X3CTL RESET CTRLS 8C000550 7818 0 D001 STO CSP&L STO CSP&L SAVE NEW ADDR PLUS 8C000600 7816 0 D0FB STO CSP&L SAVE NEW ADDR PLUS 8C000650 7816 0 D0FB STO CSP&L SAVE NEW ADDR 8C000650 7821 0 4C20 7819 BSC L CSP,Z BR LOOP AUTOMATIC DISPLAY 8C000650 8C000650 STO CSP STO CSP&L SAVE NEW ADDR 8C000650 STO CSP STO	8C001160	
* DC WAIT281 PROGRAM COMPLETED 8C000550 7815 0 1010 SLA 16 CLEAR A REG 8C000550 7816 0 D400 78AA STO L X3CTL RESET CTRLS 8C000550 7818 0 D001 STO CSP&1 RESET CTRLS 8C000550 7818 0 D001 STO CSP&1 RESET CTRLS 8C000570 7818 0 D001 STO CSP&1 RESET CTRLS 9V PATTERN NUMBER OF 8C000570 7819 0 2C40 0000 CSP STS L 0,/40 CLEAR ALL SPV PATTERN THAT WAS SET 8C000580 7818 0 COFE LD CSP&1 GET CLEAR ADD 7818 0 COFE LD CSP&1 GET CLEAR ADD 7818 0 COFE LD CSP&1 SAVE NEW ADDR PLUS 8C000600 7816 0 B068 STO CSP&1 SAVE NEW ADDR PLUS 7816 0 B069 T816 0 F400 78A4 EDR L SIZE CK FOR ALL OF CYCLING IN THE 8C000610 7816 0 F400 78A4 EDR L SIZE CK FOR ALL OF CYCLING IN THE 8C000630 7821 0 4C20 7819 BSC L CSP, Z BR LOOP 4 MUTOMATIC DISPLAY 8C000650 8C000660 8C00		
3002 0 785E DC WAIT281 PROGRAM COMPLETED 8C000540 7816 0 D400 78AA STO L X3CTL RESET CTRLS 8C000550 7818 0 D001 STO CSP&1 RESET CTRLS 7818 0 D001 STO CSP&1 ST	8C001190 8C001200	
# ACCUMULATOR SHOWS 8C000560 # PATTERN NUMBER OF 8C000570 # PATTERN NUMBER OF 8C000570 # PATTERN THAT WAS SET 8C000580 # UP IN CORE. 8C000590 # BC000600 # CONSTANTS # CONSTAN	8C001210	
# PATTERN THAT WAS SET 8C000580 # UP IN CORE. 8C000590 # BC000600 # ADJUST V REF WHILE 8C000610 # CYCLING IN THE 8C000620 # AUTOMATIC DISPLAY 8C000630 # MODE. 8C000660 # ADJUST CORE SIZE A 8C000650 # ADJUST CORE SIZE A 8C000650 # CONSTANTS # TO SET UP NEXT 8C000660 # PATTERN AFTER V REF 8C000670 # ADJUST CONSTANTS	8C001220 8C001230	
# UP IN CORE. 8C000590		
* ADJUST V REF WHILE 8C000610 * CYCLING IN THE 8C000620 * AUTOMATIC DISPLAY 8C000630 * MODE. 8C000640 * BC000650 * TO SET UP NEXT 8C000660 * PATTERN AFTER V REF 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670 * TO SET UP NEXT 8C000670	ONE 8C001260	
* AUTOMATIC DISPLAY 8C000630 * * MODE. 8C000640 * ADJUST CORE SIZE A * CONSTANTS * TO SET UP NEXT 8C000660 * * PATTERN AFTER V REF 8C000670 7823 0 C078 LD LLIM2 ADJUST CONSTA		
* MODE. 8C000640 * ADJUST CORE SIZE A 8C000650 * * CONSTANTS * TO SET UP NEXT 8C000660 * PATTERN AFTER V REF 8C000670 * 7823 0 C078 * LD LLIM2 ADJUST CONSTA	8C001290 8C001300	
* TO SET UP NEXT 8C000660 * PATTERN AFTER V REF 8C000670 5 7823 0 C078 LD LLIM2 ADJUST CONSTA	D 8C001310	
A DESCRIPTION OF THE PROPERTY	8C001320 8C001330	
*. HAS BEEN ADJUSTED 8C000680 🐉 7824 0 E07F AND SIZE	8C001340 8C001350	
* 8C000690 7825 0 D079 STO LLIM2 SET LO LIMIT	8C001360	

O LOW CORE			PART NO. 2183288 PAGE 2	IBM MAINTENANCE DIAGNOSTIC	THE LOOK OF		PAGE	. 2183288 2A
	ADJUSTMENT PROGRAM		PAGE 2	LOW CORE ADJUSTMENT PROGRAM	•	•	PAGE	ZA
	7826 0 C400 78A7	LD L ULIM1	8C001370	Amont discourse	* AD.	UST V REF	80002050	
	7828 0 E078 7829 0 D07D	AND SIZE STO ULIM1 SET UP LIMIT 1 * FIND LOOP CONTROLS	8C001380 8C001390 8C001400	785C 0 C045 785D 0 3002	# DONE LD PATNO WAIT2 WAIT 2	SET UP PATTERN NO. END OF PROGRAM	8C002060 8C002070 8C002080	
^	782A 0 CO7C 782B 0 9072 782C 0 DO73	LD ULIM1 S LLIM1 STO LOWRL SET LO CTRL LIMIT	8C001410 8C001420 8C001430	785E 0 4C00 7801	BSC L START * *	s.	8C002090 8C002100 8C002110	
^	782D 0 C076 782E 0 9070	LD SIZE S LLIM2	8C001440 8C001450	7860 0 0000	*	AND COMPL. BCP SUBRT	8C002120 8C002130	
The same of the sa	782F 0 9071 7830 0 D077	S ONE STO UPERL UPPER LIMIT CONTROL * READ SENSE/PROG SWITCHES	8C001460 8C001470 8C001480	7861 0 6847 7862 0 C040	BCP DC 0 STX 3 X3HLD LD PLOC	SAVE X3 DATA EXCUSIVE OR BITS 7	8C002140 8C002150 8C002160	
() -	7831 0 0868	READ XIO RDSWS * CK SW VALIDITY	8C001490 8C001500 8C001510	7863 0 1806 7864 0 D040 7865 0 1802	SRA 6 STO TEMP SRA 2 '	* AND 9	8C002170 8C002180 8C002190	
	7832 0 1808	* SRA 8	8C001520 8C001530	7866 0 F03E 7867 0 4C04 786C 7869 0 6D80 78A3	EOR TEMP BSC L ODD,E STX I1 PLOC	•	8C002200 8C002210	
	7833 0 D06E 7834 0 4C18 783A 7836 0 906F	STO . PATNO SAVE PATTERN NUMBER BSC L WAIT1,8- S TWO	8C001540 8C001550 8C001560	786B 0 7002 786C 0 6E80 78A3	MDX CDD&2 ODD STX I2 PLOC		8C002220 8C002230 8C002240	
\mathcal{O}	7837 0 4C08 783C 7839 0 C068 783A 0 3001	BSC L PIVOT,& LD PATNO WAIT1 WAIT 1 SELECT SENSE/PROGRAM	8C001570 8C001580 8C001590	786E 0 7401 78A3 7870 0 1000 7871 0 4015	MDX L PLOC,1 SLA O BSI CKX3X	INCREMENT ADDRESS BR TO CK X3 CTRL	8C002250 8C002260 8C002270	
0		* * SW OPTIONS AND * * DEPRESS RESET AND * START PUSHBUTTONS	8C001600 8C001610 8C001620	7872 0 70EF 7873 0 4C 80 7860	MDX BCP&2 BSC I BCP	REPEAT Exit	8C002280 8C002290 8C002300	
a	783B 0 70F5	* MDX READ	8C001630 8C001640	* * * * * * * * * * * * * * * * * * *	*	SET SPV SUBRT	8C002310 8C002320	
0		* * PIVOT ON SELECTED PATTERN *	8C001650 8C001660 8C001670	7875 0 00C0 7876 0 6B32	SPV DC 0 STX 3 X3HLD	SAVE X3 DATA	8C002330 8C002340 8C002350	
	783C 0 C065 783D 0 4C04 7842	PIVOT LD PATNO BSC L PATO1,E	8C001680 8C001690 8C001700	7877 0 6933 7878 0 C032 7879 0 F02D	STX 1 PGMX LD PGMX EOR ULIM1	SAVE X1 VALUE GET X1 DATA CK FOR START OF PGM	8C002351 8C002352 8C002353	
	7005 0 4155	* SET UP BCP OR COMPL. BCP * PATO2 LDX 1 -1 SET FOR COMPL BCP	8C001710 8C001720 8C001730	787A 0 4C18 7883 787C 0 C100 787D 0 4C18 7881	BSC L SPVX,&- LD 1 0 BSC L SPVB,&-	BR IF START FO PGM SET ADDR CTRL BRANCH IF CONTAINS O	8C002354 8C002360 8C002370	
^	783F 0 61FF 7840 0 6200 7841 0 7002	LDX 2 0 MDX PAT0162	8C001740 8C001750	787F 0 2D41 0000 7881 0 7101	STS L1 0,/41 SPVB MDX 1 1	SET SPV INCREMENT ADDRESS	8C002380 8C002390	
	7842 0 6100 7843 0 62FF 7844 0 C059	PATOL LDX 1 0 SET INDEXES FOR BCP LDX 2 -1 LD LLIM1 SET UP TO START AT	8C001760 8C001770 8C001780	7882 0 1000 7883 0 4003 7884 0 70F2	SLA O SPVX BSI CKX3X MDX SPV&2	BR TO CK X3 CTRL REPEAT	8C002400 8C002410 8C002420	
	7845 0 D05D 7846 0 404C 7847 0 6780 78A0	STO PLOC * 1ST LOWER LIMIT BSI X3CRS RESET ADDR CTRL LDX I3 LOWRL SET UP LOOP CONTROL	8C001790 8C001800 8C001810	7885 0 4C80 7875	BSC I SPV * *	EXIT	8C002430 8C002440 8C002450	-
O	7849 0 4016 784A 0 CO54	BSI BCP SET CORES LD LLIM2 SET UP TO START AT	8C001820 8C001830	7887 0 0000	* CKX3X DC 0	ENTRY	8C002460 8C002470 8C002480	
	784B 0 D057 784C 0 4046 784D 0 6780 78A8	. BSI X3CRS RESET ADDR CTRL LDX I3 UPERL SET UP LOOP CONTROL	8C001840 8C001850 8C001860	7888 0 C021 7889 0 8017	LD X3CTL A ONE	ADD TO ADV ADDR	8C002490 8C002500	
0	784F 0 4010	BSI BCP SET CORES * * SET SPV BITS	8C001870 8C001880 8C001890	788A 0 D01F 788B 0 F01D 788C 0 4CAO 7887	STO X3CTL EOR X3HLD BSC I CKX3X,Z	TEST AGAINST CTRL MAX BR IF NOT ZERO	8C002510 8C002520 8C002530	
C	7850 0 6580 789E	* STSPV LDX II LLIM1 SET UP TO START AT * 1ST LOWER LIMIT	8C001900 8C001910 8C001920	788E 0 7401 7887 7890 0 1000 7891 0 4C80 7887	MDX L CKX3X,1 NOP O BSC I CKX3X	ADV FOR EXIT RETURN SAFTY NOP RETURN TO EXIT RTN CTRL	8C002540 8C002550 8C002560	
\mathcal{O}	7852 0 6780 78A0 7854 0 4020	LDX I3 LOWRL SET UP LOOP CONTROL BSI SPV SET SPV BIT SUBRT	8C001930 8C001940		* *	RESET ADDR CTRL	8C002570 8C002580	
ဂ	7855 0 403D 7856 0 6580 789F	BSI X3CRS RESET ADDR CTRL LDX I1 LLIM2 SET UP TO START AT * * 2ND LOWER LIMIT	8C001950 8C001960 8C001970	7893 0 0000 7894 0 1010	X3CRS DC 0 SLA 16	ENTRY CLR A REG	8C002590 8C002600 8C002610	
. ^	7858 0 6780 78A8 785A 0 401A 785B 0 4037	LDX I3 UPERL SET UP LOOP CONTROL BSI SPV SET SPV BIT SUBRT BSI X3CRS RESET ADDR CTRL	8C001980 8C001990 8C002000	7895 0 D014 7896 0 4C80 7893	STO X3CTL BSC I X3CRS *	RESET ADDR CTRL CTR RETURN EXIT	8C002620 8C002630 8C002640	
ධ		* * LOAD PATTERN NUMBER WHICH .* HAS BEEN SET UP AND WAIT	8C002010 8C002020 8C002030	7898 0000 7898 0 4C00 7811	* BSS E O LINK BSC L SETLK	RESTART LINKAGE ROUTINE	8C002650 8C002660 8C002670	
ධ ධ		* TO ALLOW CE TO MANUALLY	8C002040	789A 0 0000	RDSWS DC 0	SENSE INTO A REG	8C002680	
O DATE EC NO.	28FEB66 04NOV66 415120 415233	15MAY67 14NOV69 411731 431319	PROG ID 08C0-2 PAGE 2	DATE 28FEB66 04NOV66 EC NO. 415120 415233	15MAY67 14NOV69 411731 431319		PROG ID	0800-2

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O 18	BM MAINTENANCE DIAGNOSTI	C PROGRAM FOR 1	THE 1800 SY	STEM	PART NO. 2183288 PAGE 3	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 218328
٥ ده	DW CORE ADJUSTMENT PROGR	RAM		•	7402	LOW CORE ADJUSTMENT PROGRAM	PAGE 3
00000	789B 0 0760 789C 0 6000 789D 0 0800 789E 0 0002 789F 0 78AC 78A0 0 0000 78A1 0 0001 78A2 0 0000 78A3 0 0000 78A4 0 0000 78A5 0 0000 78A6 C 0002 78A7 0 7801	K6000 DC K0800 DC LLIM1 DC LLIM2 DC LUMRL DC DNE DC PATNO DC PLOC DC SIZE DC TEMP DC TWO DC ULIM1 DC	/0760 /6000 /0800 /0002 FNI SH 0 1 0 0 0 0	SENSE/PROG SWS 24K CONSTANT CONSTANT 1ST LOWER LIMIT CTRL 2ND LOWER LIMIT CTRL LO CORE BLOCK LOOP CTRL CONSTANT 1 PATTERN NUMBER PRESENT LOC CORE SIZE & UPLIM2 CONSTANT 2 1ST UPPER LIMIT	8C002690 8C002700 8C002710 8C002720 8C002730 8C002740 8C002750 8C002760 8C002770 8C002780 8C002790 8C002800 8C002810	BCP 7860 7849 784F 7872 7873 CKX3X 7887 7871 7883 788C 788E 7891 CSP 7819 7818 7818 781E 7821 DONE 785C FNISH 78AC 789F K0800 789D K6000 789C LINK 7898 7811 LLIM1 789E 782B 7844 7850 LLIM2 789F 7823 7825 782E 784A 7856 LOWRL 78AO 782C 7847 7852 ODD 786C 7867 786B ONE 78A1 781C 782F 7889	
0	78A8 0 0000 78A9 C 0000 78AA 0 0000	UPERL DC X3HLD DC X3CTL DC	0 0 0	HI CORE BLOCK LOOP CTRL X3 DATA HOLDER CTRL ADDR UPLIM	8C002820 8C002830 8C002840	PATNO 78A2 7833 7839 783C 785C PATO1 7842 783D 7841 PATO2 783F	
0	78AB 0 0000 78AC 0 0000 78AE 7801	PGMX DC FNISH DC END	0 0 START	PGM SPV CK WORR AREA LAST LOC OF PROG	8C002850 8C002860 8C002870	PGMX 78AB 7877 7878 PIVOT 783C 7837 PLOC 78A3 7845 784B 7862 7869 786C 786E	
0	NO STATEMENTS	FLAGGED IN THE	ABUVE ASSE	MBLY		RDSWS 789A 7831 READ 7831 783B SETLK 7811 7898	
0						SIZE 78A4 780F 781F 7824 7828 782D SPV 7875 7854 785A 7884 7885 SPVB 7881 787D	
Ó						SPVX 7883 787A START 7801 785E 78A7 78AE STGCK 7809 7802	
0						STGLP 7804 780B STSPV 7850 TEMP 78A5 7864 7866 TWD 78A6 7836	
0			•			ULIM1 78A7 7826 7829 782A 7879 UPERL 78A8 7830 784D 7858 WAIT1 783A 3001 7834	
0						WAIT2 785D 3002 X3CRS 7893 7846 784C 7855 7858 7896 X3CTL 78AA 7816 7888 788A 7895	
0						X3HLD 78A9 7861 7876 788B END OF ASSEMBLY	
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JBM MATI	NTENANCE DIAGNOSTIC (DBUCDVM ECO) THE 1800 CVC	TEM	-	_	TOM MA	INTENANCE DIACNOSTIC		30 THE ***	CVCTCU	_	
	RE ADJUSTMENT PROGRAM		. THE TROO 242	IEM	PART NO. 2 Page	183292 1		INTENANCE DIAGNOSTIC		א THE 1800	SYSTEM	PART NO PAGE	0. 2183292 1A
)	ME ROOSTHENT PRUGRAM	-ī					HIGH C	ORE ADJUSTMENT PROGR	KAM				
)		ABS			8C100020)		*		PLACE NEXT PATTERN	8 C100700	
	3001	ORG *	/3001		8C100030 8C100040				*		NUMBER IN THE SENSE/PROGRAM SWS	8C100710	
)		*	1800 COR	E ADJUSTMENT PROGRAM	8C100050	()		*			8C100720 8C100730	
)		*			8C100060 8C100070		X		*		TURN MODE SW TO RUN ** PLUS **	8C100740 8C100750	
J		******	******* NOTI	ES **********	8C100080	•	V		*		TURN ON WR SPV SW	8C100755	
)		*			8C100090 8C100100	6	· ·		*		DEPRESS RESET	8C100760 8C100770	
•		*	OPE! SPV	RATOR SHOULD CLEAR BITS EACH TIME BEFORE	8C100110 8C100120	٠,	,		*		PUSHBUTTON	8C10078 0 8C100790	
)		*	THE	CORE ADJUSTMENT PROG	8C100130	()		*		DEPRESS START	8C100800	
•		*		LOADED	8C100140 8C100150	** ·	,		*		PUSHBUTTON	8C100810 8C100820	
)		*	SET	CK STOP SW TO ON.	8C100160 8C100170	()		* ****	******	******	8C100830	
		*		WRITE STORAGE PROTECT	8C100180				*	The second secon		8C100840 8C100850	
)		*		SWITCH TO YES FOR EXECUTING PROGRAM AND	8C100190 8C100200	C		012C	* OR	RG /0120		8C100860 8C100870	
		*	1	TO NO WHILE ADJUSTING	8C100210			012C 0 C100	DC	/C100		8C100880	
		*		V REF.	8C100220 8C100230)		*		*	8C10089 0 8C100900	
		* *	SENS	SE/PROGRAM SW SETTINGS	8C100240		`		* *	CC	RE SIZE DETERMINER *	8C100910	
		*	C	O1 SET UP BEST CASE	8C100250 8C100260	()	0120 0 (100	*****	*****	**********		
		*		PATTERN	8C100270 8C100280		`	012D 0 6100 012E 0 C007	START LD LD		SET CTRL INDEX 1 &1 GET CONSTANT FFFF & SET	8C100940 8C100950	
		*	C	32 SET UP COMPLEMENT	8C100290		J	012F 0 D1FF	ST		IN MAXIMUM ADDRESS	8C100960	
		*		BEST CASE PATTERN	8C100300 8C100310	- P	h	0130 0 7500 1000	∓ STGLP MD	X L1 /1000	ADVANCE CONTROL INDEX	8C100970 8C100980	
		*			8C100320	(P	0132 0 1000 0133 0 1010	NO SL	IP 0	SAFETY NOP FOR 32K CORE	80100990	
		*****	*****	*******	8C100330 8C100340	-)	0134 0 D1FF	ST		CLEAR ACCUMULATOR AND SET IN 4K CORE BLOCK MAX ADDR	8C101000 8C101010	
		******	***** WATT	「S *************	8C100350 8C100360	€.	,	0135 0 C400 FFFF	* STGCK LD	L /FFFF		8C101020	
	2001 0 01/7	*			8C100370	(h	0137 0 4C20 0130		C L STGLP	.Z CHECK IT FOR ZERO	8C101040	
	3001 0 0167	DC *	131TIAW	SELECT PATTERN	8C100380 8C100390	· .	y		*		BRANCH LOOP IF NOT MAX	8C101050 8C101060	
		*		SET PATTERN NUMBER	8C100400)	0139 0 71FF	MD:	X 1 -1	DECREMENT X1 TO ACTUAL	8C101070	
		*		OF DESIRED PATTERN IN SENSE/PROG SWS	8C100410 8C100420	· · ·	,		*		MAXIMUM ADDRESS THIS CPU	8C101080 8C101090	
		*		DEDDECK DECET DUTTON	8C100430	s ()	013A 0 1000 013B 0 6D00 01D0	NO!	P 0 X L1 SIZE	SAFETY NOP FOR 32K CORE	8C101100	
		*		DEPRESS RESET BUTTON	8C100440 8C100450	* _	,	-130 0 0000 0100	*	v ri 317E	SET PROPER LIMIT	8C101110 8C101120	
		*	•	DEPRESS START BUTTON	8C100460 8C100470	\mathcal{C})		* *		SETUP RESTART LINKAGE	8C101130	
		*		NOTE ACCUMULATOR	8C100480	**	•		*		COLOR RESTANT CHARAGE	8C101140 8C101150	
		*		SHOWS THE SETTING OF THE PRESENT SENSE/	8C100490 8C100500)	013D 0 CC00 01C4	≠ SETLK LDI	D L LINK	LOAD RESTART ADDR	8C101160 8C101170	
		*		PROGRAM SWITCHES	8C100510			013F 0 DC00 0000		D L O	* WITHOUT CORE SIZE CK	8C101180	
		*			8C100520 8C100530)	0141 0 1010	SL		CLEAR A REG	8C101190 8C101200	
	3002 0 018A -	DC *	WAIT281	PROGRAM COMPLETED	8C100540 8C100550	. شهر		0142 0 D400 01D6 0144 0 D001	STO STO		RESET CTRLS RESET CTRLS	8C101210 8C101220	
		*		ACCUMULATOR SHOWS	8C100560		B	0145 0 2040 0000	*	_		8C101230	
		*		PATTERN NUMBER OF PATTERN THAT WAS SET	8C100570 8C100580	_ ~		0147 0 COFE	CSP STS		CLEAR ALL SPV BITS GET CLEAR ADDR	8C101240 8C101250	
		*		UP IN CORE.	8C100590		y	0148 0 84CO 01CD 014A 0 DOFB	A Sto	L ONE	ADV ADDR PLUS ONE	8C101260	
		*		ADJUST V REF WHILE	8C100600 8C100610		A	014B 0 F400 01D0	EOF	R L SIZE	SAVE NEW ADDR CK FOR ALL OF CORE	8C101270 8C101280	
		*		CYCLING IN THE AUTOMATIC DISPLAY	8C100620	, ()	,	014D 0 4C20 0145	# B S C	C L CSP.Z	BR LOOP	8C101290	
		*		MODE.	8C100630 8C100640				*		ADJUST CORE SIZE AND	8C101300 8C101310	
		*		TO SET UP NEXT	8C100650 8C100660	, ()	7		∓ ‡		* CONSTANTS	8C101320 8C101330	
		*		PATTERN AFTER V REF	8C100670	(014F 0 C07B 0150 0 E07F	LD AND		ADJUST CONSTANT	8C101340	
		*		HAS BEEN ADJUSTED	8C100680 8C100690		7	0150 0 E07F 0151 0 D079	AND Sto		SET LO LIMIT 2	8C101350 8C101360	
0.1	000000					All the second		205554		• • • •			
DATE EC NO.	28FEB66 04NOV66 415120 415233	15NOV67 411731	14NOV69 431319		PROG ID 01 PAGE	8C1-2	DATE EC NO.	28FEB66 04NDV66 415120 415233	15NOV67 411731	14NOV69 431319		PROG ID PAGE	08C1-2 1A
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				IOSTIC P		FOR	THE	1800 SY	STE4	PART NO. PAGE	2183792 2
OR	E ADJI	US 1	PENT	PROGRAM							•
	0152	0	C400	0103		1 D	ı	ULIMI .		8C101370	
			E07B			AND STO	-	SIZE		8C101380	
	0155	0	DOTD			STO		ULIMI	SET UP LIMIT 1	8C101393	•
	0156	0	COTC		•	LD		ULINI	ND LOOP CONTROLS	8C101400 8C101410	
	0157	0	9072			Š		LLIMI		8C101410	
		_	D073			S STO LD		LOWRL	SET LO CTRL LIMIT	8C101430	
			C076 9070			S S		SIZE LLIM2		8C101440 8C101450	
	0158	9	9071			Š		ONE		8C101460	
	015C	0	D077		• •	STO		UPERL	UPPER LIMIT CONTROL	8C101470	
	0150	٥	0863		READ	X IO		RDSWS	EAD SENSE/PROG SWITCHES	8C101480 8C101490	
		Ī			*	~10		W-3 W-3		8C101500	
					•				K SW VALIDITY	8C101510	
	015F	0	1808		•	584				8C101520 8C101530	
	015F	0	DO6E			STO		PATNO	SAVE PATTERN NUMBER	8C101540	
	0160	0	4018	0166		BSC	L	WAITI.	•	8C101550	
	0193	0	4008	0168		BSC	£	PIVOTA	1	8C101560 8C101570	
	0165	0	C068			LD		PATNO	-	8C101580	•
	0166	0	3001		WAITE	WAI	T	PATNO WAIT1.6 TWO PIVOT.6 PATNO 1	SELECT SENSE/PROGRAM	8C101590	
					•				* SW OPTIONS AND * DEPRESS RESET AND	8C101600 8C101610	
									START PUSHBUTTONS	8C101620	
	0167	, ,	70F9		•			READ		8C101630	
	410.		ivra		•	HUX		REAU		8C101640 8C101650	-
					•			1	PIVOT ON SELECTED PATTERN	8C101660	
	0165		-	i	PIVOF			04780		8C101670	
	0169	i	4C04	016E	71101			PATNO PATOL,1	E	8C101680 8C101690	
_					•		_		•	8C101700	
					•			:	SET UP BCP OR COMPL. BCP	8C101710	
	916	3 (61FF	:	PAT02	LDX	1	1 -1	SET FOR COMPL BCP	8C101720 8C101730	
			6200 7002			LUA	•	£ U		8C101740	
			6100		PAT01	MDX		PATOLE:	Z SET INDEXES FOR BCP	8C101750 8C101760	
	016	F (62F1	:		1 DX		2 -1	or instance for boy	8C101770	
			0 CO59			LD STO		LLIMI		8C101780	
			4040			RSI		PLOC X3CRS	* 1ST LOWER LIMIT RESET ADDR CTRL	8C101790 8C101800	
	017	3 (678	01CC		LDX	1	LOWAL	SET UP LOOP CONTROL	8C101810	
			0 4016 0 C056			BSI LD		BCP	SET CORES	8C101820	
			D DO5			STO		LLIM2 PLOC	SET UP TO START AT + 2ND LONER LIMIT	8C101830 8C101840	
			0 404			851	l	X3CRS	RESET ADDR CTRL	8C101850	
			D 6780 D 4010	0104		LDX BS1		3 UPERL BCP	SET UP LOOP CONTROL	8C101860	~_
		- '		-	. •	031		ULF	SET CORES	8C101870 8C101880	•
	-		ر جو مرجمين					-	SET SPY BITS	8C101890	~
	017	C	0 658	OICA	¥ 272P\	/ LDY	(9	1 LLIMI	SET UP TO START AT	8C101900 8C101910	+
					•				+ 2ND LOWER LIMIT	8C101910	
				0100				3 LOWRL	SET UP LOOP CONTROL	8C101930	
			0 402 0 403			851 851		SPV X3CRS	SET SPV BIT SUBRT RESET ADDR CTRL	8C101940	-: •
				0108				1-LLIM2	SET UP TO START AT	8C101950 8C101960	~
	A1 =	_	A 470	0.104	•				# 2ND LOWER LIMIT	8C101970	
			0 678 C 401	D 01D4 A		BSI		3 UPERL SPV	SET UP LOGP CONTROL SET SPV BIT CTRL	8C101980	
	010		0 +03			BSI		X3CRS		8C101990 8C102090	
	ا رائ	Ta			•					8C102010 '	,
• `	~								LOAD PATTERN NUMBER WHICH HAS BEEN SET UP AND WAIT	8C102020	Name Alvano
	*_ =		100		• •				TO ALLOW CE TO MANUALLY	8C102030 8C102040	
					·	-		-			anga kanga Tangga Ka
			· 🕏					~	in the second of	الأستيم الماسية	
	-	-	Bés	04N0V6	15N						

		IAGNOSTIC P ENT PROGRAM		FUR 1	ne.	1500 2121	C#	PART NO. 21 PAGE	832
				,	٠.			~	
			•			ADJ	UST V REF	80102050	
	0188 0 00		DONE			PATNO	SET UP PATTERN NO.	8C102060 8C102070	
	0189 0 30 018A 0 40		WAIT2			2 START	END OF PROGRAM	8C102080 8C102090	
		-	•		-	-	•	8C10S100	
~	•		•			BCF	AND COMPL. BCP SUBRT	8C102110 8C102120	
	0180 0 00		BCP	DC		C		8C102130 8C102140	
	018D 0 61			STX	3	X3HLD PLOC	SAVE X3 DATA EXCUSIVE OR BITS 7	8C102150	
	018F 0 1	606		SRA		6	+ AND 9	8C102160 8C102170	
	0190 0 D			STO SRA		TEMP 2		\$C102180 \$C102190	
	0192 0 F			EOR	_	TEMP		SC102200 .	
	0195 0 6					DDO.E -		8C10221 0 8C10222 0	
	0197 0 7		000	MDX		00062		8C102230	~
	019A 0 7		000			PLOC PLOC,1	INCREMENT ADDRESS	8C102240 8C102250	
	019C 0 10			SLA BS I		0		8C102260	
	019E 0 7	OEF		MDX		CKX3X BCP&2	BR TO CK X3 CTRL REPEAT	8C102270 8C102280	
	019F 0 4	C80 018C	•	BSC	1	BCP	EXIT	8C102290	
			. •					8C102300 8C102310	
			*				SET SPV SUBRT	8C102320	
	01A1 0 0		SPV	DC		0		8C102330 8C102340	
	01A2 0 6 01A3 0 6			STX		X3HLD PGMX	SAVE X3 DATA Save X1 value	8C102350	
	0144 0 C	932		LD		PGMX	GET X1 DATA	8C102351 8C102352	
	01A5 0 F 01A6 0 4	020 C18 01AF		EOR BSC	L	ULIMI SPVX.E-	CK FOR START OF PGM BR IF START OF PGM	8C102353 8C102354	
	01A8 0 C	100		LD	1	. 0	SET ADDR CTRL	6C102369	
		C18 01AD		BSC STS		SPVB.E-	BRANCH IF CONTAINS O SET SPV	8C102370 8C102380	
	01AD 0 7		SPYB	MDX		1	INCREMENT ADDRESS	8C102390	
_	01AE 0 1 01AF 0 4		SPVX	SLA BSI		O CKX3X	BR TO CK X3 CTRL	8C102400 8C102410	
	0180 0 7	OF2 C80 01A1		MDX	٠	SPV&2	REPEAT	8C102420	
	0101 0 4	COU UIAI	•	83C		SPV	EXIT	8C102430 8C102440	
			•				•	8C102450	
	0183 0 0	0000	CKX3	DC		0	ENTRY	8C102460 8C102470	
	0184 0 0	:021	•	LD		X3CTL	-	8C102480	
	0185 0 8	1017_		A		ONE	ADD TO ADV ADDR	8C102490 8C102500	
	0185 0 0 0187 0 F			STO		X3CTL X3HLD	TEST AGAINST CTRL MAX	8C102510 8C102520	
		CAO 0183 7401 0183		B SC	1	CKX3X.Z	BR IF NOT ZERO	8C102530	
	018C 0 1			NOP	L	CKX3X,1	ADV FOR EXIT RETURN SAFTY NOP	8C102540 8C102550	
	01BD 0 4	C80 0183	•	BSC	1	CKX3X	RETURN TO EXIT RTN CTRL	8C102560	
	. 	**	ě			-	RESET ADDR CTRL	8C102570 8C102580	
	018F 0 (0000	4 X3CR	s nc		0		8C102590	
	0100 0 1	1010		SLA		16	ENTRY CLR A REG	8C102600	
	0101 0 0	0014 6C80 018F		STC		X3CTL X3CRS	RESET ADDR CTRL CTR	8C102620	
• ,			· · · •				RETURN EXIT	8C102630 8C102640	
		0000	•	855		0		8C102650	
	0164 0	6C00 0130		BSC	L	SETLK	RESTART LINKAGE ROUTINE	8C102660 8C102670	
		0000 - మాహుత్వజ్ఞా	RDSW			0 		8C102680	
		. " Allen and the same and the			7			-	
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		415233 	- 411 	731	ا جيڪت	31319 3. 1	The second second	PAGE	
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	NTENANCE DIAGNOSTI RE ADJUSTMENT PROG		THE 1800 SYS	TEM	PART NO. 21 Page	3	MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM CORE ADJUSTMENT PROGRAM	PART NO. 2183292 PAGE 3A
	01C7 0 0760 01C8 0 6000 01C9 0 0800 01CA 0 0002 01CB 0 01DB 01CC 0 0000 01CD 0 0001 01CF 0 0000 01D1 0 0000 01D2 0 0002 01D3 0 012D 01D4 0 00C0 01D5 0 0000 01D7 0 0000 01D7 0 0000 01D8 0 0000 01DA 012D NO STATEMENTS	DC K6000 DC K0800 DC LLIM1 DC LLIM2 DC LOWRL DC ONE DC PATNO DC PLOC DC SIZE DC TEMP DC TWO DC ULIM1 DC UPERL DC X3HLD DC X3CTL DC PGMX DC FNISH DC END FLAGGED IN THE	/0760 /6000 /0800 /0002 FNISH 0 1 0 0 0 2 START 0 0 0 0 START ABOVE ASSEME		8C102690 8C102700 8C102710 8C102720 8C102730 8C102740 8C102750 8C102770 8C102780 8C102790 8C102800 8C102810 8C102820 8C102830 8C102840 8C102850 8C102850 8C102870		BCP 018C 0175 0178 019E 019F CKX3X 01B3 019D 01AF 01B8 01BA 01BD CSP 0145 0144 0147 014A 014D DONE 0188 FNISH 01DB 01CB K0800 01C9 K6000 01C8 LINK 01C4 013D LLIM1 01CA 0157 0170 017C LLIM2 01CB 014F 0151 015A 0176 0182 LOWRL 01CC 0158 0173 017E DDD 0198 0193 0197 ONE 01CD 0148 015B 01B5 PATNO 01CE 015F 0165 0168 0188 PATO1 016E 0169 016D PATO2 016B PGMX 01D7 01A3 01A4 PIVOT 0168 0163 PLOC 01CF 0171 0177 01BE 0195 0198 019A RDSWS 01C6 015D READ 015D 0167 SETLK 013D 01C4 SIZE 01D0 013B 014B 0150 0154 0159 SPV 01A1 0180 0186 0180 01B1 SPVB 01AD 01A9 SPVX 01AF 01A6 START 012D 018A 01D3 01DA STGCK 0135 012E STGLP 0130 0137 STSPV 017C TEMP 01D1 0190 0192 TWO 01D2 0162 ULIM1 01D3 015C 0155 0156 01A5 UPERL 01D4 015C 0179 0184 MAIT1 0166 0160 3001 WAIT2 0189 3002 X3CRS 01BF 0172 C17B 0181 0187 01C2 X3HLD 01D5 018D 01A2 01B7 END 0F ASSEMBLY	
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O DATE EC NO.	28FEB66 04NDV	66 15NOV67	14NOV69		PROG ID 0	8C1-2 DATE	28FEB66 04NOV66 15NOV67 14NOV69 0. 415120 415233 411731 431319	PROG ID 08C1-2 Page 3A

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1600 SYSTEM

PART NO. 2183278

PROG ID 0880-0

PAGE

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

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	6.1	EDIT PROCEDURE	
•	PURPOS	E	
		GNETIC TAPE CRC FUNCTION TEST IS DESIGNED TO CHECK THE TAPE ERROR Tion Circuitry for proper operation.	
	THE PR	DGRAM IS ABLE TO TEST.	
	1.	SYSTEMS WITH ONE OR TWO TAPE DRIVES.	
	2.	DRIVES WITH 9 TRACK READ-WRITE HEADS.	
	3.	MODELS 1, 2 OR 3 WITH 2 DR 4 MICROSECOND STORAGE.	
	IF THE	SYSTEM HAS TWO TAPE DRIVES WITH 9 TRACK HEADS, BOTH DRIVES MAY BE FIALLY TESTED IN ONE CONTINUOUS RUN OF THE PROGRAM.	
•	PREREQU	UISITES	
		ROGRAM ASSUMES THAT THE 2400 MAGNETIC TAPE FUNCTION TEST RUNS AND NU ONTROL ERRORS EXIST. EQUIPMENT REQUIRED CONSISTS OF.	
	1.	1442 CARD READ/PUNCH OR 1054 PAPER TAPE READER.	
	2.	1053 OR 1816 TYPEWRITER OR 1443 PRINTER.	
	3.	1800 PROCESSOR CONTROLLER.	
	4. 5.	ONE OR TWO 2400 SERIES MAGNETIC TAPE DRIVES WITH 9 TRACK HEADS. THIS PROGRAM REQUIRES THE RELOCATABLE DIAGNOSTIC LOADER FOR LOADING.	
		THE THEORY IS A CONTROL OF THE STATE OF THE	

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR .. 1890 SYSTEM

PART NO. 2143278 PAGE

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

- 3. USE PROCEDURE
 - PROGRAM LOADING

PULL CARD 1009 IN EACH TAPE DRIVE TO BE TESTED.

- 3.1.1 ON TAPE DRIVE (S) TO BE TESTED.
 - 1. LOAD TAPE REEL.
 - 2. DEPRESS LOAD-REWIND KEY.
 - 3. DEPRESS START KEY.
 - AFTER TAPE REWINDS TO LOAD POINT, DRIVE (S) SHOULD BECOME READY.
- 3.1.2 REFER TO RELOCATABLE DIAGNOSTIC LOADER DOCUMENTATION FOR LOADING PROCEDURE.
- 3.1.3 AFTER LCADING THE PROGRAM WILL HALT AT WAIT 2.

IF OPTIONS ARE DESIRED. GO TO 3.2.2. IF NO OPTIONS ARE DESIRED, GO TG 3.2.1.

- OPERATION
- 3.2.1 IF NO OPTIONS ARE SET THE PROGRAM ASSUMES,
 - 1. ALL 9 TRACK DRIVES ON THE SYSTEM ARE TO BE RUN.
 - 2. OUTPUT DEVICE IS TO BE 1053 OR 1816 TYPEWRITER.
 - 3. ALL ERRORS ARE TO BE PRINTED.

TO EXECUTE THE PROGRAM-DEPRESS THE START BUTTON.

3.2.2 OPERATING OPTIONS

IF OPTIONS ARE DESIRED, SET SWITCHES FROM TABLES 0 AND 1 AND DEPRESS THE START BUTTON.

TABLE O-CONTROL SWITCHES

- 1. SHITCHES MAY BE SET PRIOR TO PROGRAM LOADING
- OR AT WAIT 2.
- 2. SWITCHES O AND 1 MAY BE CHANGED ONLY BY A RESET-START OPERATION, BUT ALL OTHER SWITCHES MAY BE CHANGED AT ANYTIME.

* DATA ENTRY SWITCHES * DESCRIPTION * 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 * . . . 1. HALT BEFORE ROUTINE 1. . . HALT ON ERROR . . 1 . . . BYPASS PRINTOUTS 1. LOOP ON ERROR 1 LOOP PROCRAF. * · · 1 PRINT DNLY FIRST BAD DATA WORD (THIS IS ALTONATIC IF SW 12 IS DN)

OJMAY66 DATE

EC NO. 415120A

CATE OJHAY66 EC NO. 415120A

PROG ID 08BD-0 2400 CYCLIC REDUNCANCY CHECK FUNCTION TEST

TABLE 1-LOOP ROUTINE

- 1. THESE SHITCHES MAY BE CHANGED AT ANYTIME.
- IF ZERO IS ENTERED, THE PROGRAM WILL NOT LOOP ANY ROUTINE, BUT WILL RUN ALL ROUTINES IN SEQUENCE.
- 3. IF IT IS DESIRED TO START ON A ROUTINE OTHER THAN ROUTINE 1. AND CONTINUE THE PROGRAM FROM THAT POINT.

 A. SET STARTING ROUTINE PER TABLE 1.
 - B. START PROGRAM.
 - C. WHILE PROCRAM IS RUNNING SELECT ROUTINE O.
 THE PROGRAM WILL COMPLETE THE SELECTED ROUTINE AND
 THEN RUN THE REMAINING ROUTINES IN THEIR NORMAL
 SECUENCE.

3.3 TERMINATING PROCEDURE

- THE PROGRAM WILL TERMINATE WHEN ALL DRIVES SELECTED HAVE BEEN TESTED, UNLESS LOOP PROGRAM SWITCH IS ON.
- 2. THE PROGRAM WILL TERMINATE IF CERTAIN ERRORS OCCUR. (SEE SECTION 4-PRINTOUTS)
- 3. THE PROGRAM CAN BE MANUALLY TERMINATED AT ANY TIME BY DEPRESSING THE STOP BUTTON.

3.4 RESTART PROCEDURE

PRESS THE STOP, RESET AND START KEYS. THE PROGRAM SHOULD GO TO WAIT 2. IF THIS DOES NOT OCCUR THE PROGRAM MUST BE RELOADED.

3.5 PROGRAM HALTS

PROGRAM WAITS ARE USED IN THIS PROGRAM, AND ARE IDENTIFIED BY REFERENCING THE B REGISTER AND 1 REGISTER.

A PROGRAM WAIT IS OF THE FORM.

30XX (B REGISTER)

A DESCRIPTION OF THE INDIVIDUAL PROGRAM WAITS CAN BE FOUND AT THE BEGINNING OF THE PROGRAM LISTING. A TYPICAL WAIT DESCRIPTION FOLLOWS. IT IS INCLUDED TO SHOW THE FORMAT IN THE LISTING, AND IT IS NOT NECESSAPILY A DESCRIPTION OF AN ACTUAL WAIT.

3001 0 O1ED DC MAIT1+1

ONE OF THE METERED I/O UNITS FAILED TO SEND A RESPONSE INTERRUPT TO THE PROGRAM. INDEX REGISTER 1 WILL MAVE THE ADDRESS OF THE IOCC. THE AREA CODE WILL INDICATE THE I/O UNIT NOT READY. IF A 2401/02 DRIVE IS NOT READY, PROGRAM WILL NOT STOP AT WAIT 1.

B REG., (FIRST 4 DIGIT GROUP) CORRESPONDS TO B REG. READING.
I REG., (SECOND 4 DIGIT GROUP) CORRESPONDS TO I REG. READING.

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4. PRINTOUTS 4.1 COMMAND MESSAGES PID MID RID RAD UNIT BDOO CCOO XXXX XXXX OOOX DRIVE O IS SELECTED TO BE RUN BUT IS NOT READY. PROGRAM IS TERMINATED. BDOO COOL XXXX XXXX OOOX DRIVE 1 IS SELECTED TO BE RUN BUT IS NOT READY. PROGRAM IS TERMINATED. BDOO CCO2 XXXX XXXX DOOX ALL ROUTINES ARE COMPLETE ON THE DRIVE INDICATED. 4.2 INFORMATION MESSAGES BDOO AOO1 XXXX XXXX OOOX XXXX RECOVERED WRITE ERROR. A CORRECT WRITE WAS ACCOMPLISHED AFTER THE NUMBER OF RETRYS SHOWN. BDOO ACC2 XXXX XXXX COOX YYXX RECOVERED READ ERROR. A CORRECT READ WAS ACCOMPLISHED AFTER THE NUMBER OF RETRYS SHOWN. NUMBER RETRYS = YY TIMES 10 PLUS XX.

A B C D

BDOO ECO1 XXXX XXXX OOOX XXXX XXXX XXXX
DATA RECEIVED WAS NOT CORRECT

A-EXPECTED DATA
B-RECEIVED DATA

C-WORD NUMBER IN ERROR
D-TRACK BEING TESTED (FFFF=LOST CHARACTER RTM)

DSW
RECEIVED

BDOG E002 XXXX XXXX QOOX XXXX
DRIVE WAS NOT READY PRIOR TO A WRITE.
PROGRAM IS TERMINATED-SUGGEST RUNNING THE 2400 F. T.

BDOO E003 XXXX XXXX QOOX XXXX

COULD NOT WRITE CORRECTLY IN THREE TRIES.
PROGRAM IS TERMINATED-SUGGEST RUNNING THE 2400 F. T.

BD00 E004 XXXX XXXX OOOX XXXX
DRIVE WAS NOT READY PRIOR TO A READ.

PROGRAM IS TERMINATED-SUGGEST RUNNING THE 2400 F. T.
BDOO ECOS XXXX XXXX COOX XXXX

UNCORRECTABLE READ ERROR.

BD00 E006 XXXX XXXX 000X XXXX

DSW INCORRECT AFTER BACKSPACE.

PROGRAM IS TERMINATED—S GGEST RUNNING THE 2400 F. T.

SDOO EOO7 XXXX XXXX QOOX XXXX

DRIVE WAS NOT READY PRIOR TO A BACKSPACE.

PROGRAM IS TERMINATED— SUGGEST RUNNING THE 2400 F. T.

BDOO EOOB XXXX XXXX OGOX XXXX

DRIVE WAS NOT READY PRIOR TO A REWIND.

PROGRAM IS TERMINATED—SUGGEST RUNNING THE 2400 F. T.

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5. COMMENTS

THIS PROGRAM CONSISTS OF A SUPERVISOR ROUTINE, A SERIES OF COMMON MAGNETIC TAPE ROUTINES AND A SERIES OF TESTS. SECTION 5.1 GIVES A DESCRIPTION OF EACH SUBROUTINE AND ITS CALLING SEQUENCE. SECTION 5.2 GIVES A DESCRIPTION OF EACH TEST ROUTINE.

COMMON SUBROUTINES

ALL ROUTINES ASSUME THAT INDEX REGISTER ONE CONTAINS THE NUMBER OF THE TAPE DRIVE PRESENTLY BEING RUN.

NAME CALL

BSP

USE-BACKSPACE ONE RECORD ON THE DRIVE INDICATED BY INDEX REGISTER ONE.

USE-RESET THE CRC CIRCUITRY BY SELECTING THE OTHER DRIVE.

USE-CONVERT A BINARY WORD TO ITS 1443 CODE HEXADECIMAL EQUIVILENT.

INTERRUPT ROUTINE

USE-SENSE ILSW AND DSW. SAVES THE DSW WORD RECEIVED AND RESETS THE INTERRUPT LEVEL.

LOGC BSI L LOGC

USE-THIS ROUTINE IS ENTERED BY ROUTINE LOGOO. THIS ROUTINE PRINTS THE MESSAGE SET UP BY ROUTINE LOGOC. ON THE 1053 OR 1816 TYPEWRITER.

USE-THIS ROUTINE CONVERTS A 1443 CODED MESSAGE TO A 1053 OR 1816 TYPEWRITER CODED MESSAGE. THIS ROUTINE THEN CALLS ON ROUTINE LOGC.

BSI L PR43

USE-DUTPUT A MESSAGE ON THE 1443 PRINTER.

PRINT BSI L PRINT

DC MESSAGE ID

FCRM NUMBER

CONTINUE ADDRESS

MDX LOOP ON ERROR ADDRESS

USE-SET UP THE DESIRED MESSAGE FROM THE MESSAGE IT AND FORM NUMBER. THIS ROUTINE THEN CALLS ON ROUTINE HEXCY. UPON COMPLETION OF THE CONVERSION THIS ROUTINE CALLS ON EITHER LOGOO OR PR43 DEPENDING ON THE OUTPUT DEVICE SELECTED. AFTER PRINTING IS COMPLETE THE HALT ON ERROR SWITCH IS CHECKED. IF ON, THE ROUTINE WAITS. FINALLY THE LOOP ON ERROR SWITCH IS CHECKED AND THE ROUTINE EXITS TO THE PROPER MDX INSTRUCTION FOLLOWING THE CALL.

USE-READ A RECORD FROM THE TAPE DRIVE SPECIFIED BY INDEX REGISTER ONE. IF NO UNEXPECTED ERRORS EXIST THE ROUTINE BACKSPACES AND REREADS WITH CORRECTION. IF UNEXPECTED ERRORS EXIST ON EITHER READ, THE ROUTINE WILL RETRY ONE HUNDRED FIMES BEFORE PRINTING UNCORRECTABLE ERROR.

USE-REWIND THE DRIVE SPECIFIED BY INDEX REGISTER DNE.

SNDSW BSI L SNDSW

USE-SENSE THE DRIVE SPECIFIED BY INDEX REGISTER ONE. RETURN WITH THE DSW WORD RECEIVED IN THE A REGISTER.

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SPIF BSI L SPTF USE-SET THE FIRST EIGHT WORDS OF THE 1/0 AREA TO HEXADECIMAL 7F7F. ALSO SET WORDS TEN AND THELVE TO HEXADECIMAL GOTF AND ALL OTHER WORDS TO ZERO.

BSI L SP8F

USE-SET THE FIRST EIGHT WORDS IN THE 1/O AREA TO HEXADECIMAL BEBF. ALSO SET WORDS TEN AND THELVE TO HEXADECIMAL GOSF AND ALL ETHER WORDS

SP80 BSI L SP80

USE-SET THE FIRST EIGHT WORDS IN THE 1/O AREA TO HEXADECIMAL 8080. ALSD SET WORDS TEN AND THELVE TO HEXADECIMAL OUBC AND ALL CTHER WORDS TO

USE-WRITE ONE RECORD ON THE TAPE DRIVE SPECIFIED BY INDEX REGISTER ONE. IF ERRORS EXIST THE ROUTINE WILL BACKSPACE, ERASE AND REWRITE. IF THE ERROR STILL EXISTS AFTER THREE RETRYS IT IS AS UNCORRECTABLE WRITE FRRDR.

TEST ROUTINES

CRC CHECKING METHOD USED BY THIS PROGRAM

THE FOLLOWING METHOD IS USED FOR CHECKING THE ERROR CORRECTION CIRCUITRY IN THE MAGNETIC TAPE CONTROL UNIT. A RECORD IS SELECTED SUCH THAT ITS DATA CHARACTERS, ITS CRC CHARACTER AND ITS LRC CHARACTER DO NOT HAVE ANY BITS IN THE PARITY TRACK. FOR EXAMPLE, THE RECORD CONSISTING OF THE SIXTEEN CHARACTERS 7F, 7F, ETC. HOULD ON A HORMAL WRITE HAVE A CRC CHARACTER AND A LRC CHARACTER OF 7F. THIS RECORD BY CHANGING ONE OR MORE OF THE CHARACTERS TO HAVE BAD PARITY WHEN NO BY CHANGING CNE OR MORE OF THE CHARACTERS TO HAVE BAD PARITY WHEN NO BY CHANGING CHE OR MORE OF THE CHARACTERS TO HAVE BAD PARITY WHEN NO PARITY BIT IS WRITTEN. THE FOLLOWING CHARACTERS ARE SENT TO TAPE.

CHAR = 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25-625

				*																							1
P	0		0	1	C	0	0	J	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	1	1
0	0	1	0	0	0	0	0	0	Ö	0	Õ	Ō	Ō	Õ	Õ	Õ	Õ	ō	ō	ō	ŏ	ā	ō	ō	ă	ñ	ċ
1	1		1	1	1	1	1	1	1	1	1	1	1	ì	1	ì	ĭ	Ö	ŏ	õ	ĭ	ŏ	ō	ñ	ĭ	ň	č
2	1		1	1	1	1	1	1	ĭ	ī	ĭ	ī	ī	ī	ī	ī	ī	ŏ	ŏ	ō	ī	ō	ŏ	ŏ	i	ñ	ŏ
3	1		1	1	1	1	1	1	1	ī	ī	ī	1	ī	ī	ĭ	ĭ	ŏ	ă	ŏ	ī	õ	ŏ	ŏ	i	ŏ	ň
4	1		1	ı	1	1	1	1	1	ī	ī	ī	ī	ī	ī	ī	ī	ŏ	ŏ	ŏ	ī	ŏ	ŏ	ŏ	ī	ŏ	ŏ
5	1		1	1	1	1	1	1	1	1	1	1	1	1	1	ī	1	Ō	Õ	Õ	ī	ŏ	Õ	õ	ī	ō	6
6	1		1	1	1	1	1	1	ī	1	1	ī	ī	ī	ī	ī	ī	ō	ŏ	Õ	ī	õ	ō	ō	ī	5	ŏ
7																		Ŏ									

WHEN THIS RECORD IS RECEIVED FROM TAPE, THE PARITY BITS (+) WILL NOT BE READ. THIS WILL CAUSE CHARACTER 3 TO HAVE BAD PARITY ON TAPE. CHARACTERS 17, 18 AND 19 WILL APPEAR AS NO BITS ON TAPE AS WILL CHARACTERS 21, 22, 23 AND 25 THROUGH 625. WHEN READING THIS RECORD. CHARACTER POSITIONS 17, 18 AND 19 WILL FORM A GAP SO THAT CHARACTER 20 WILL APPEAR AS THE CRC CHARACTER. THE GAP CAUSED BY THE NO BITS IN CHARACTERS 21, 22 AND 23 WILL FORCE CHARACTER 24 TO BE TREATED AS A LRC CHARACTER. THE ABSENCE OF BITS IN CHARACTERS 25 THROUGH 625 FORM THE INTERRECORD GAP. WHEN CHARACTER 3 IS READ IT WILL ACTIVATE THE ERROR CORRECTION CIRCUITRY AND CALCULATE THE TRACK IN ERROR. THIS TRACK MUST BE TRACK 7 SINCE THE CRC CORRESPONDS TO CHARACTER 3 HAVING A BIT IN TRACK 7.

IN A SIMILAR MANNER, TRACK IN ERROR DETECTION CAN BE FORCED IN ALL TRACKS EXCEPT THE PARITY TRACK. IT MUST BE REALIZED THAT THIS PROGRAM CANNUT CHECK THE PARITY TRACK SINCE A CARD IS REMOVED WHICH WILL PREVENT THE MARITY BIT FROM BEING WRITTEN, TO ALLOW THIS METHOD OF CHECKING TO WORK.

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ARE PLACED IN TRACK FIVE.

ARE PLACED IN TRACK SIX.

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2400 CYCLIC REDUNEANCY CHECK FUNCTION TEST

DECIMAL ROUTINE NUMBER	HEXAGECIMAL ROUTINE Number	DESCRIPTION
1	1	SET THE I/O AREA TO 7F7F. THE ROUTINE THEN SETS A LOST BIT IN CHARACTER ONE, TRACK ONE AND WRITES THE DATA. THE RECORD IS THEN READ WITH CORRECTION AND THE DATA IS CHECKED TO SEE IF IT WAS CORRECTED. THE TEST IS THEN REPEATED UNTIL THE LOST BIT HAS BEEN PLACED IN EACH OF THE SIXTEEN CHARACTERS USED, IN TRACK ONE.
2	2	THE SAME TEST AS ROUTINE ONE EXCEPT THE LOST BITS ARE PLACED IN TRACK THO.
3	3	THE SAME TEST AS ROUTINE ONE EXCEPT THE LOST BITS ARE PLACED IN TRACK THREE.
4	4	THE SAME TEST AS ROUTINE ONE EYCEPT THE LOST BITS ARE PLACED IN TRACK FOUR.
5	5	THE SAME TEST AS ROUTINE ONE EXCEPT THE LOST BITS ARE PLACED IN TRACK FIVE.
6	6	THE SAME TEST AS ROUTINE ONE EXCEPT THE LOST BITS ARE PLACED IN TRACK SIX.
7	7	THE SAME TEST AS ROUTINE ONE EXCEPT THE LOST BITS ARE PLACED IN TRACK SEVEN.
8	8	THE SAME TEST AS ROUTINE ONE EXCEPT THE PATTERN USED IS BEBE AND LOST BITS ARE PLACED IN TRACK ZERO.
9	9	THIS ROUTINE SETS A PASTERN OF 8FTO IN THE EIGHT 1/O MORDS. ALL BITS ON ONE TRACK ARE THEN SET TO ZERO INCLUDING THE CRC AND LRC CHARACTERS. THUS SIMULATING A DEAD TRACK. AFTER THE READ. THE DATA IS CHECKED TO SEE IF RECOVERY WAS CORRECT. THE TEST IS REPEATED UNTIL TRACKS O THROUGH 7 HAVE ALL BEEN TESTED AS DEAD TRACKS.
10	A	THIS ROUTINE SETS A PATTERN OF BFTO IN THE I/O AREA. ALTERNATE PICKED AND DROPPED BITS ARE THEN SET IN TRACK O. AFTER THE READ WITH CORRECTION THE DATA IS CHECKED. THE ROUTINE THEN REPEATS UNTIL TRACKS O THROUGH 7 HAVE BEEN CHECKED.
11	8	THE I/O AREA IS SET TO THE PATTERN OF 8080. ALL EVEN NUMBERED CHARACTERS EXCEPT CHARACTER 16 ARE THEN CLEARED TO SIMULATE LOST CHARACTERS. AFTER THE READ THE DATA IS CHECKED FOR PROPER RECOVERY.
12	c	THE I/O AREA IS SET TO THE PATTERN OF 8080. THE ROUTINE THEN SETS A PICKED BIT IN CHARACTER ONE, TRACK ONE AND WRITES THE DATA. THE RECORD IS READ WITH CORRECTION AND THE DATA IS CHECKED TO SEE IF IT WAS CORRECTED. THE TEST IS THEN REPEATED UNTIL THE PICKED BIT HAS BEEN PLACED IN EACH OF THE SIXTEEN CHARACTERS USED, IN IRACK ONE.
13	D	THE SAME TEST AS ROUTINE TWELVE EXCEPT THE PICKED BITS ARE PLACED IN TRACK THO.
14	E	THE SAME TEST AS ROUTINE THELVE EXCEPT THE PICKED BITS ARE PLACED IN TRACK THREE.

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THE SAME TEST AS ROUTINE TWELVE EXCEPT THE PICKED BITS 18 12 ARE PLACED IN TRACK SEVEN. THE SAME TEST AS ROUTINE TWELVE EXCEPT THE PATTERN USED 19 13 IS 7F7F AND THE PICKED BITS ARE PLACED IN TRACK ZERO. THIS ROUTINE SETS A PATTERN OF 8080 IN THE EIGHT 1/0 20 14 WORDS. ALL BITS OF ONE TRACK ARE SET TO ONE. AFTER THE READ THE DATA IS CHECKED TO SEE IF RECOVERY WAS MADS. THE TEST IS REPEATED UNTIL TRACK 1 THROUGH 7 THE SAME TEST AS ROUTINE THENTY EXCEPT THE PATTERN IS 21 15 7F7F AND TRACK O IS TESTED.

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THE SAME TEST AS ROUTINE THELVE EXCEPT THE PICKED BITS ARE PLACED IN TRACK FOUR.

THE SAME TEST AS ROUTINE THELVE EXCEPT THE PICKED BITS

THE SAME TEST AS ROUTINE TWELVE EXCEPT THE PICKED BITS







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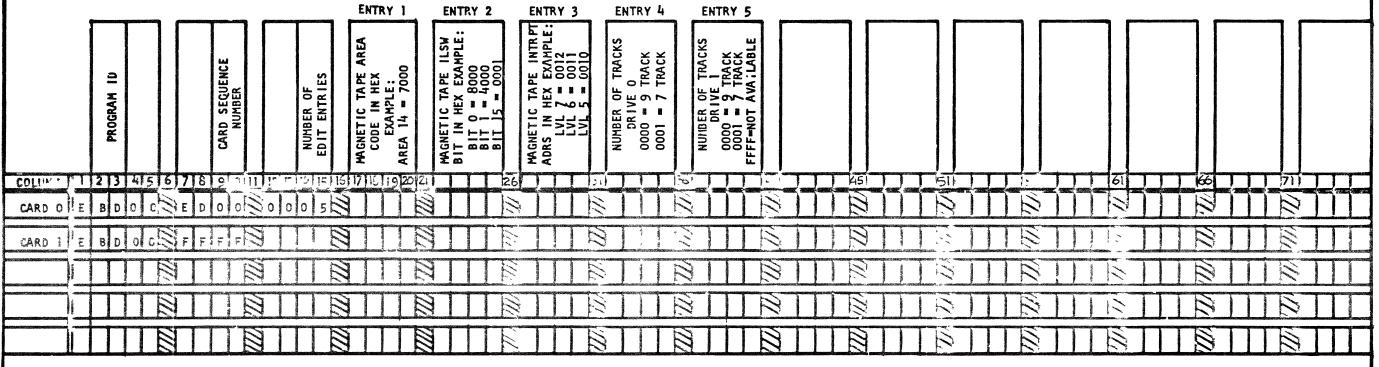
6 APPENDIX

6.1 EDIT PROCEDURE

THE FOLLOWING PROCEDURE IS FOR CARD INPUT. FOR PAPER TAPE INPUT, REFER TO THE PAPER TAPE EDIT UTILITY PROGRAM DOCUMENTATION.

THE PROPER EDIT CARDS MUST BE THE LAST CARDS IN THIS PROGRAM DECK. THE FOLLOWING FORMS ARE PROVIDED TO AID IN MANUALLY PREPARING THESE EDIT CARDS OR UPDATING EXISTING EDIT CARDS. IF IT IS NECESSARY TO PREPARE OR MODIFY EDIT CARDS, FILL IN THE NECESSARY DATA IN THE FORMS PRIOR TO PUNCHING THE CARDS. CARD COLUMNS THAT ARE SHADED SHOULD BE LEFT BLANK.

ALL FIELDS SHOWN MUST BE PUNCHED IN THE CARD.



THE LAST CARD IS THE "END EDIT CARD" . THE INFORMATION IN THIS CARD INCLUDES:

- 1. AN "E" IN COLUMN 1.
- 2. THE PID FOR THIS PROGRAM (COLUMNS 2 AND 3).
- 3. A TERMINATOR WORD OF "FFFF" (COLUMNS 7 10).

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02BC	ABS Org	/3001		8BD00000
•		PO n.	GRAMMED WAITS	8BD00010 8BD00020
•	:	*****	OKAHHED MAII 2	8BD00030
3001 0 0143	DC	WAIT1+1	LAST CARD OF THE	8BD00040
•			DECK IS NOT AN END	8BD00050 8BD00060
•			OF EDIT CARD. ARRANGE	8BD00070
			THE DECK AND RELOAD.	88D00080
3002 0 015A	0.0			88000090
5002 U 015A	DC	WAIT2+1	WAIT FOR SWITCHES TO	8BD00100
			BE SET UP. SET DESTRED	88000110
•			SWITCHES AND PRESS START.	8BD00120
			SIAKI.	8BD00130
3003 O 0199	DC	WAIT3+1	HALT BEFORE ROUTINE.	8BD00140
•		_	THIS WAIT WAS REACHED	88000150
			DUE TO SW. REQUEST.	8BD00160 8BD00170
			PUSH START TO CONTINUE.	8BD00180
3004 0 02E3	0.0			8BD00190
*	DC	WAIT4+1	LOST INTERRUPT AFTER	8BD00200
•			WRITE. PUSH RESET AND	8BD00210
•			START TO RESTART THE	8BDC0220
•			PROGRAM.	8BD00230
3005 0 G2FB	DC	WAIT5+1	PROGRAM TERMINATED	8BD00240
*			DUE TO LAST PRINTED	8BD00250
*			ERROR. SUGGEST THAT	8BD00260 8BD00270
•			THE 2400 F. T. BE RUN.	8BD00280
•			THIS PROGRAM CAN BE	8BD00290
*			RETRIED BY PUSHING	8BD00300
			RESET AND START.	88000310
3006 0 0315	DC	WAIT6+1	LOST INTERRUPT ASSE	8BD00320
•	00	MATIOAT	LOST INTERRUPT AFTER ERASE. PUSH RESET	8BD00330
•			ERASE. PUSH RESET AND START TO RESTART	8BD00340
•			THE PROGRAM.	8BD00350
*				8BD00360 8BD00370
3007 0 0340 3008 0 0349	DC	WAIT7+1	LOST INTERRUPT AFTER	8BD00380
3008 0 0349	DC	WAIT8+1	READ. PUSH RESET	8BD00390
•			AND START TO RESTART	8BD00400
			THE PROGRAM.	8BD00410
3009 0 0306	DC	WAIT9+1	LOCK THICKNEY ASTS	8BD00420
		WWI1341	LOST INTERRUPT AFTER BACKSPACE. PUSH RESET	8BD00430
			BACKSPACE. PUSH RESET AND START TO RESTART	8BD00440
*			THE PROGRAM	88D00450 88D00460
*				8BD00470
300A 0 0405	DC	WAITA+1	LOST INTERRUPT AFTER	8BD00480
*			REWIND. PUSH RESET	8BD00490
			AND START TO RESTART	88D00500
•			THE PROGRAM.	8BD00510
300E 0 04EA	DC	WAITB+1	HATT DECAUGE AND TO	8BD00520
		MATIOAT	WAIT BECAUSE HALT ON ERROR SWITCH IS ON	8BD00530
•			AND AN ERROR HAS	8BD00540
*			OCCURRED. PUSH START	8BD00550
•			TO CONTINUE THE	88D00560 8BD00570
•			PROGRAM.	3BD00570
300C 0 0588	20			8BD00590
*	DC	WAITC+1	TYPEWRITER IS NOT	8BD00600
•			READY. MAKE IT	88000610
•			READY AND PUSH START.	8BD00620
300D 0 05F9	DC	WAITD+1	1442 IS NOT 25124	8BD00630
•	- *		1443 IS NOT READY. MAKE IT READY AND	8BD00640
			PUSH START.	88D00650
*			· · · · · · · · · · · · · · · · · · ·	8BD00660 8BD00670
				00000010

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3005 0 02/2				
300E 0 0242	DC	WAITE+1	FOUND A BLANK ILSW	68900689
	•		AT INTERRUPT. PUSH	8BD00690
	•		RESET AND START TO RESTART THE PROGRAM.	8BD00700
	*		RESTART THE PRUGRAM.	8BD00710
300F 0 038E	DC	WAITF+1	LOST INTRPT ON READ	8BD00720 8BD00730
	•		WHILE TRYING TO REST-	8BD00740
	*		ORE RECORD FOR RETRY	8BD00750
	•		AFTER PASSING CLEANER.	8BD00760
3010	DRG	300		8BD00770
		,	********	8BD00780
	*	~~~~~	^^^^	8BD00790
	*	EDI	T ROUTINE	88D00800
	*			88D00810 8BD00820
012C 0 BD00	*XXXXXXXXXX	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	*******	8BD00830
012C 0 BD00 012D 00 67000132	υc	/BD00	PID	86D00835
012F 00 6F000124	START LDX STX	L3 FDT L3 /0124	IX 3 = LDR RETURN	8BD00840
0131 0 6050	LDX	X /0050	STORE IN LOADER	8BD00850
0132 O 62FB	EDT LDX	2 -5	GO TO LOADER IX 2 = NO./ENTRIES	88000860
0133 0 C208	EDT1 LD	2 8	GET AN ENTRY	8BD00870
0134 00 D60001CB	STO	L2 EDIT+5	SET IN EDIT AREA	8BD00880 8BD00890
0136 0 7201 0137 0 70FB	MDX	2 1	DECR IX 2	8BD00900
0138 00 6700013D	MDX	EDT1	LOOP	8BD00910
013A 00 6F000124	LDX STX	L3 EDT2	IX 3 = LDR RETURN	8BD00920
013C 0 6050	LDX	L3 /0124 X /0050	STORE IN LOADER	8BD0 093 0
013D 00 C4000001	EDT 2 LD	L /0001	GO TO LOADER GET LOC 1	8BD00940
013F 00 F4000513	EOR	L TERM	SET LUC I	88D00950
0141 0 4820	BSC	2	IS THIS END EDIT	88D00960 8BD00970
0142 0 3001	WAIT1 WAIT	1	NO	8BD00980
0143 00 6700001B	# Begin Ldx		_	84000990
0145 00 C400023E		L3 27 L INTR2	IX = NO LEVELS	8BD01000
0147 00 D7000007		L INIK2	GET COMMON INTR TRAP SET	88001010
0149 0 73FF	MDX	3 -1	DECR IX 3	8BD01020
014A 0 70FC	MDX	BEGAN	LOOP	8BD01030
014B 00 D4000001		L /0001	SET CE TRAP	8BD01040 8BD01050
014D 00 C400023F 014F 00 D48001C8		L TPINT	GET TAPE TRAP	8BD01060
0151 00 CC0001D0		I EDIT+2	SET	8BD01070
0153 00 DC000006		L RSTRT L /0006	GET RESTART	8BD01080
0155 00 C400G1D2		L RSRT	SET RESTART GET RESTART MDX	83001090
0157 00 D4000000	STO	L /0000	SET RESTART HUX	8BD01100
0159 0 3002	WAIT2 WAIT	2	WATT FOR SHITCHES	8BD01110 8BD01120
	******	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXX	8BD01130
	*			8BD01140
	•	PKOG	RAM INITILIZATION	88001150
	*XXXXXXXXXX	XXXXXXXXXX	xxxxxxxxxxxxxxxxxx	8BD01160
015A 0 1010	MTST SLA	16	CLEAR ALL NECESSARY	8BD01170
015B 0 D05C	STO	TAPEO	*LOCATIONS	8BD01180 8BD01190
015C 0 D05C 015D 00 D40004F1	STO	TAPEL	- · · · · ·	8BD01207
015F 00 D4000328		L RID		8BD01210
0161 0 0858	STO (L WRERR	111111111111111111111111111111111111111	8BD01220
0162 0 0859	XIO	UNMKO UNMK1	UNMASK ALL LEVELS	8BD01230
		XXXXXXXXXXX	××××××××××××××××××××××××××××××××××××××	8BD01240
	•		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8BD01250
	*	SUPE	RVISOR ROUTINE	8BD01260 8BD01270
	*			8BD01270
0163 0 085E	*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXX	******	8BD01290
0164 00 C40001CB	SUPK XIU	KOBSW	READ DATA SWS	8BD01300
0166 0 4828	BSC	L SWO +Z	GET SWS	8BD01310
0167 0 700E	MDX	SUPR3	IS DRIVE O TO BE RUN NO	8BD01320
0168 00 C40001C9		EDIT+3	GET NO TRACKS DR O	8BD01330
			NO THENS DR U	8BD01340

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

01/4					_				
016A 0	4820		BSC		Z	IS IT A 9 TRACK		8BD01350	
016B 0	700A		MDX		SUPR3	NO		8BD01360	
0186 00	700A C40001C6 D049		LD	L	EDIT	GET AREA CODE		8BD01370	
019E 0	D049		STO		TAPEO	SAVE SET IXING-DR O SENSE DRIVE IS DRIVE READY NO REWIND DRIVE		8BD01380	
016F 0	6100		LDX		0	SET IXING-DR O		8BD01390	
0170 00	6100 4400041E 4804 7034 440003F6 C40001CA 4828 7012		BSI	L	SNDSW	SENSE DRIVE	SRC	8BD01400	
0172 0	4804		BSC		E	IS DRIVE READY		8BD01410	
0°73 0	7034		MDX		SUPR4	NO		8BD01420	
0174 00	4 4 0003F6		BSI	L	RWD	REWIND DRIVE	SRC	8BD01430	
0176 00	C40001CA	SUPR3	LD	L	EDIT+4	GET NO TRACKS DR 1		8BD01440	
C178 O	4828		BSC		+ Z	IS DR 1 AVAIL		8BD01450	
0179 0	7012		MDX		SUPRO	NO		8BD01460	
017A 0	4820		BSC		2	IS IT A 9 TRACK DR		8BD01470	
017B 0	7010		MDX		SUPR8	NO THE PORT OF		8BD01480	
017C 00	4820 7010 C40001CB 1001 4828 7008		LD	L		GET DATA SWS			
017E 0	1001		SLA	•	1	OLI DATA SWS			
017F 0	4828				_	IS DR 1 TO BE RUN		8BD01500	
0180 0	7008		MDX		CHODO	NO DE RUN		8BD01510	
0181 00	C40001C6		LD		SUPRO	IS DR 1 TO BE RUN NO GET AREA CODE SET DR 1 MOD SAVE SET IXING DR 1 SENSE DRIVE IS DR READY NO REWIND DRIVE GET DR 0 AREA CODE IS IT ZERO NO—SET TO DR 0 START PROGRAM		88001520	
2182 0	C40001C6 F04A D034 6101 4400041E 4804 7026 440003F6 C02B		LOD	L	EDI:	GET AREA CODE		88001530	
0104 0	D034		EOR		MUU+1	SET OR I MOD		8BD01540	
0104 0	(101		STO		IA"EI	SAVE		8BD01550	
0195 0	6101		LDX	. 1	1	SET IXING DR 1		8BD01560	
0186 00	4400041E		BSI	L	SNDSW	SENSE DRIVE	SRC	8BD01570	
0188 0	4804		BSC		E	IS DR READY		8BD01580	
0189 0	7026		MDX		SUPR6	NO		8BD01590	
018A 00	440003F6		BSI	L	RWD	REWIND DRIVE	SRC	8BD01600	
018C 0	CO2B	SUPR8	LD		TAPEO	REWIND DRIVE GET DR O AREA CODE IS IT ZERO NO-SET TO DR O START PROGRAM		88001610	
018D 00	4C180191		B SC	L	SUI'RO ++-	IS IT ZERO		88D01620	
018F 0	6100		LDX	1	0	NO-SET TO DR O START PROGRAM GET DR 1 AREA CODE BRANCH IF CLEAR		88001630	
0190 0	7004		MDX		SUPR1	START PROGRAM		88001640	
0191 0	C027	SUPRO	LD		TAPFI	GET DR 1 AREA CODE		88001640	
	4C1801F1		BSC	L	RETRI .+-	RPANCH TE CLEAD		00001650	
0194 0	(101			٠,	RETR1,+- 1 RDBSW	SET IVINC TO DD 1		98001660	
0195 0	082C	SUPR1	YIO	•	RDBSW	BEAD DATA SUS		88001670	
0196 0	C034	30- KI	VIO		KUDSW	REAU DATA SWS		88001680	
			LD		2 M O	IS IT ZERO NO-SET TO DR O START PROGRAM GET DR 1 AREA CODE BRANCH IF CLEAR SET IXING TO DR 1 READ DATA SWS GET SWS IS HLT BEFORE RTN DN YES READ SNS/PRG SWS		8BD01690	
0197 0	4804		BSC		t	IS HLT BEFORE RTN ON		8BD01700	
0198 0		WAIT3			3	YES READ SNS/PRG SWS GET SNS/PRG SWS IS A RTN SEL NO-GET RTN NO ADD ONE SET RTN NO IX 3 = ROUTINE NO GO TO ROUTINE		8BD01710	
0199 0	082A		XIO		RDSSW	READ SNS/PRG SWS		8BD01720	
G19A 0	C031		LD		SW1	GET SNS/PRG SWS		8BD01730	
019B O	1808		SRA		8			8BD01740	
	4C2001A2		B SC	L	SUPR2,Z	IS A RTN SEL NO-GET RTN NO		8BD01750	
019E 00	C40004F1		LD	L	RID	NO-GET RTN NO		8BD01760	
01A0 00	84000684		A	L	ONE	ADD ONE		8BD01770	
01A2 00	D40004F1	SUPR2	STO	L	RID	SET RIN NO		88001780	
01A4 00	678004F1		LDX		RID	IX 3 = ROUTINE NO		88001700	
	4F8001D3				CMRTT	CO TO POLITINE		98001170	
		*	500	• •	0	OO TO ROOTINE		00001000	
		*				O SELECTED BUT NOT			
		*			READY	O SELECTED BUT NUT		8BD01820	
		*			KEAUT			8BD01830	
0140 0	1010				• .	0.5.5		8BD01840	
01A8 0		SUPR4			16	CLEAR DR O AREA CODE		8BD01850	
01A9 0	DOOE		STO		TAPEO			8BD01860	
	4400043A		B S I	L		GO PRINT	SRC	8BD01870	
OIAC O	C000		DC		/C000	MSG 0		8BD01880	
OLAD O	0002		DC		/0002	FORM 2		88001890	
OIAE O	7094		MDX		BEGIN	CONTINUE		88D01900	
01 AF 0	70B3	SUPR5	MDX		SUPR	LOOP ON ERROR		8BD01910	
		*						8BD01920	
		*			DPIVE	1 SELECTED BUT NOT		8BD01930	
		*			READY	1 01210120 001 1101			
		*			NCAU!			8BD01940 8BD01950	
0180 0	1010	SUPR6	A 12		16	CLEAR DR 1 AREA CODE			
01B1 0	D007	30. NO	STO		TAPE1	SELAN DR I AREA CUDE		8BD01960	
	4400043A		BSI	L	PRINT	CO ODINI		8BD01970	
01B2 00				L			SRC	88D01980	
	C001		DC		/0001	MSG 1		8BD01990	
0185 0	0002		DC		/0002	FORM 2		8BD02000	
0186 0	708C	6.15.55	MDX		BEGIN	CONTINUE		8BD02010	
01B7 0	708E	SUPR7	MDX		SUPR3	LOOP ON ERROR		8BD02020	
DATE EC NO.	01MAY66 415120A	04NDV6	6					PROG ID	0880-0
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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

		•					99002020
		*			CONS	TANTS	8BD02030 8BD02040
		*			00.10		8BD02050
01 B 8	0000		BSS	Ε	0		8BD02060
01B8 O	0000	TAPEO	DC		0	AREA CODE	8BD02070
0189 0	0000	TAPEL			0	AREA CODE	8BD02080
OIBA O	0000	UNMKO	DC		0	UNMASK LOWER	88002090
0188 0	0480		DC		/0480		8BD02100
01BC 0	0000	UN4K1			0	UNMASK UPPER	8BD02110
01BD 0	0481	****	DC		/0481		8BD02120
01BE 0 01BF 0	FFFF 0480	MKO	DC		/FFFF	MASK LOWER	8BD02130
0160 0	FFFF	M V 1	DC		/0480	MACK 110 DED	8BD02140
0101 0	0481	MK1	DC DC		/FFFF /0481	MASK UPPER	8BD02150
0102 0	01CB	RDB SW			2M0	DEAD DATA CUC	8BD02160
0163 0	0240	NOO 3M	DC		/0240	READ DATA SWS	8BD02170
0104 0	OICC	RDSSW			SW1	READ SNS/PRG SWS	88D02180
0105 0	0260		DC		/0260	NEND 31137 FRG 343	8BD02190 8BD02200
0166 0	0000	EDIT	DC		0	AREA CODE	8BD02210
01C7 0	0000		DC		0	ILSW BIT	88D02220
0168 0	0000		DC		0	INTR ADRS	8BD02230
0109 0	0000		DC		0	TRKS DR O	8BD02240
OLCA O	0000		DC		0	TRKS DR 1	8BD02250
OLCB O	0000	SWO	DC		0	DATA SW STORAGE	8BD02260
01CC 0	0000	SW1	DC		0	SNS/PRG SW STORAGE	8BD02270
01CD 0	0000	MOD	DC		0		8BD02280
01CE 0 01D0	0020		DC	_	/0020	MOD FOR DR 1	8BDU2290
	0000 4C000143	RSTRT	BSS	E	0	DECTART DRAWE	8BD02300
01D2 0	7005	RSTT	MDX	L X	BEGIN /0005	RESTART BRANCH	8BD02310
0102 0	1005	*	TUA	^	70005	RESTART MDX	8BD02320
		*			ROUT	INE TABLE	8BD02330
		*				THE TABLE	8BD02340 8BD02350
01D3 O	0016	CMRTT	DC		22	NUMBER OF ROUTINES	8BD02360
01 D4 0	0624		DC		CMRT	ROUTINE 1	8BD02370
01 D5 0	0624		DC		CMRT	2	8BD02380
01D6 O	0624		DC		CMRT	3	8BD02390
01D7 0	0624		DC		CMRT	4	8BD02400
3108 0	0624		DC		CMRT	5	8BD02410
0109 0	0624		DC		CMRT	6	8BD02420
01DA 0 01DB 0	0624 0689		DC		CMRT	7	8BD02430
0100 0	06E3		DC DC		RTN8	8	8BD02440
0100 0	0758		DC		RTN9 RTN10	9	8BD02450
OIDE O	07B4		DC		RTN11	10 11	8BD02460
01DF 0	07F7		DC		CMR12	12	8BD02470
01E0 0	07F7		DC		CMR12	13	6BD02480 8BD02490
01E1 0	07F7		DC		CMR12	14	8BD02500
01E2 0	07F7		DC		CMR12	15	8BD02510
01E3 0	07F7		DC		CMR12	16	8BD02520
01E4 0	07F7		DC		CMR12	17	8BD02530
01E5 0	07F7		DC		CMR12	18	8BD02540
01E6 0	0855		DC		RTN19	19	3BD02550
01E7 0	O8AD		DC		RT20	20	8BD02560
01E8 0	08F7		DC		RT21	21	8BD02570
01E9 0	Olea		DC		RETRN	END PROG	8BD02580
		**	***	* * *	****	******	8BD02590
		*			POUT	INCC OCTUON WERE	8BD02600
		*			KUUT	INES RETURN HERE	8BD02610
			(XXXX	XXX	XXXXXXXXX	*****	8BD02620
01EA 00	C40004F1	RETRN		^^^	RID	GET RTN NUMBER	8BD02630 8BD02640
	F0E6		EOR	-	CMRTT	CET WITH MOTIBER	8BD02650
	4C1801F1		B SC	L	RETR1,+-	BRANCH = ALL RTNS	8BD02660
	4C000195		B SC	L	SUPR1	CONTINUE PROG	8BD02670
	4400043A	RETR1	BSI	L	PRINT	PRINT-PROG COMPLETE SRC	8BD02680
	C002		DC		/C002	MSG 2	8BD02690
01F4 0	0002		DC		/0002	FORM 2	8BD02700

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DATE EC NO.

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0410146 4152336

01F5 0 7000 MDX RETR2 CONTINUE ADRS 01F6 0 1010 RETR2 SLA 88D02710 01F7 00 D50001B8 CLEAR AREA CODE 88D02720 STO L1 TAPEO 01F9 00 C40001B8 LD 8BD02730 L TAPEO GET DR O AREA CODE O1FB 00 4C180203 B SC L RETR3,+-8BD02740 IS IT CLEAR 01FD 0 6100 LDX 8BD02750 1 0 01FE 0 1010 NO-SET TO DR O SLA 8BD02760 01FF 00 D40004F1 CLEAR RTN NUMBER STO 8BD02770 L RID 0201 00 40000195 BSC SUPR1 8BD02780 GO 10 SUPERVISOR 0203 00 C40001B9 RETR3 LD 8BD02790 L TAPFI GET DR 1 AREA CODE 0205 00 4C18020D BSC L END,+-8BD02800 0207 0 6101 IS IT CLEAR LDX 1 1 8BD02810 NO-SET TO DR 1 0208 0 1010 8BD02820 SLA 16 CLEAR ROUTINE NUMBER 0209 00 D40004F1 STO L RID 8BD02830 0208 00 40000195 BSC 8BD02840 L SUPRI GO TO SUPERVISOR 8BD02850 020D 00 0C0001C2 END 8BD02860 XIO RDBSW L 020F 0 1010 READ DATA SWS 8BD02870 SIA 16 0210 00 D40004F1 CLEAR A REG 88D02880 STO L RID CLEAR RTN NO 0212 00 C40001CB LD 8BD02890 L SWO GET DATA SWS 0214 0 1804 8BD02900 SRA 0215 00 40040163 BSC L SUPR, E 8BD02910 IS LOOP PROG ON 0217 00 40000143 8BD02920 BSC L BEGIN ******************************** 85D02930 8BD02940 8BD02950 TAPE INTERRUPT ROUTINE 8BD02960 ******************************** 88D02970 0219 0 0000 88002980 021A 0 2818 STS 88D02990 TASS 0218 0 SAVE STATUS D81A STD 8BD03000 TAAO SAVE A AND Q 021C 0 081B 8BD03010 XIO ILSW SENSE ILSW 0210 0 D01D STO 8BD03020 TAILS 021E 00 44180240 SAVE 88003030 BSI TERR,+ 0220 00 F40001C7 BRANCH IF BLANK EOR 88D0304C EDIT+1 0222 00 40180227 B SC INTR1 .+-88003050 BRANCH IF TAPE 0224 00 44000242 BSI 8BD03060 SVINT NOT TAPES 0226 0 700B 8BD03070 MDX INTR3 0227 0 C014 INTR1 LD 88003080 SDSW GET FNC 0228 00 F50001B8 8BD03090 L1 TAPEO EOR 022A 0 D012 SET AREA CODE 86003100 STO SDSW+1 SAVE 022B 0 0810 XIO 8BD03110 SDSW SENSE-NO RESET 022C 0 C010 8BD03120 LD SDSW+1 GET IDCC 022D 00 F4000684 EOR 85003130 ONE 022F 0 DOOD SEI BIT 15 8BD03140 STO SDSW+1 0230 0 080B SAVE XIO 8BD03150 SDSW SENSE-RESET 0231 0 D008 8BD03160 STO D S W SAVE SENSE WD 0232 0 C803 INTR3 LDD 8BD03170 TAAQ RESTORE A AND Q 0233 0 2000 TASS LDS 8BD03180 RESTORE STATUS 0234 00 4CC00219 8BD03190 BOSC 1 INTR EXIT 0236 0000 ΙX 88D03200 BSS E 0 0236 0 0000 TAAQ DC 8BD03210 0 A AND Q STORAGE 0237 0 0000 8BD03220 DC O 8BD03230 0238 0 0000 ILSW DC 8BD03240 0239 0 0300 SENSE ILSW IDCC DC 88D03250 /0300 8BD03260 023A 0 0000 DS# DC 8BD03270 n DSW STORAGE 023B 0 0000 TAILS DC 8BD03280 0 ILSW STORAGE 88003290 023C 0 0700 SDSW DC 8BD03300 /0700 DSW IOCC 023D 0 0000 DC 88003310 88D03320 023E 0 0242 INTR2 DC 88003330 SVINT COMMON INT TRAP 023F C 0219 TPINT DC 8BD03340 INTR TAPE INT TRAP 8BD03350 0240 0 1000 TERR NOP 8BD03360 0241 0 300E WAITE DC 88003370 /300E BLANK ILSW WAIT 8BD03380

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8BD03390 8BD03400 ROUTINE TO SERVICE NON-8BD03410 PROGRAM GENEPATED 8BD03420 INTERRUPTS 8BD03430 8BD03440 0242 0 0000 SVINT DC 8BD03450 0243 00 OCO001BE XIO L MKO ΙE 8BD03460 0245 00 0C0001C0 MASK ALL LVLS 8BD03470 XIO L PKI 0247 0 D044 CTZ 8BD03480 SVIO SAVE A REG 0248 00 C400000A LD /000A 8BD03490 GET LOX 10 02-A 00 9400023E 8BD03500 L INTR2 SUB ADRS SVINT 024C 0 4818 BSC 8BD03510 024D 0 7006 SKIP = ADRS 10 MDX 8BD03520 SVIN3 024E 00 C400000A NOT ADRS 10 LD 8BD03530 L /000A 0250 0 DOF1 GET ADRS 10 STO 8BD03540 SVINT SET RETURN 0251 0 COEC LD 8BD03550 INTR2 RESTORE LOC 10 0252 00 D40000CA 8BD03560 STO /000A 0254 00 00000238 SVIN3 XIO 88D03570 ILSW RESET ILSW 0256 00 7402028A MDX 8BD03580 SV7.2 0258 0 1010 SET PASS SW SLA 8BD03590 0259 0 D02D 16 STO 8BD03600 SV4 CLEAR AREA CODE CTR 025A 0 C02A LD 8BD03610 SV2 025B 0 D02D STO 8BD03620 SV6 SET IDCC IN USE SW 025C 0 C027 SVINO LD 8BD03630 SVI 0250 0 D02A 8BD03640 STO SV5 SET MODIFIER CTR 025E 0 C028 SVIN1 LD 8BD03650 SV4 025F 0 100B SLA 8BD03660 11 0260 0 E827 OR 8BD03670 **SV5** 0261 0 E827 *BUILD IOCC OR 8BD03680 SV6 0262 0 D02A STO 8BD03690 SVIO+1 0263 0 0828 XIO 8BD03700 SVIO SENSE AND RESET DSW 0264 00 74FF0288 MDX 8BD03710 L SV5,-1 0266 0 70F7 MDX 88003720 SVINI BRANCH IF NOT ALL MD 0267 00 74010287 SVIN2 MDX 8BD03730 L SV4,1 INCREMENT AREA CODE 0269 00 C40001C6 LD 8BD03740 EDIT GET TAPE AREA CODE 026B 0 180B SRA 8BD03750 11 026C 0 901A 8BD03760 SV4 026D 0 4818 BSC 88003770 +-SKIP = NOT TAPE 026E 0 70F8 MDX 8BD03780 SVIN2 026F 0 C017 SET TO NEXT A C LD 8BD03790 SV4 0270 0 9012 8BD03800 SVO CK IF ALL A C USED 0271 0 4808 BSC 8BD03810 0272 0 70E9 MDX SVINO 8BD03820 0273 00 74FF028A GO USE NEXT A C MDX 8BD03830 SV1,-1 0275 0 7001 SKIP IF SECOND PASS MDX 8BD03840 *+1 0276 0 7005 MDX 8BD03850 SVEXT 0277 0 COOE LD 8BD03860 SV3 0278 0 D010 STO 8BD03870 SV6 SET IOCC FOR PI 0279 0 1010 88D03880 SLA 16 027A 0 DOOC STO 8BD03890 **SV4** SET AC FOR NEXT 027B 0 70E0 MDX SVINO 8BD03900 027C 0 COOF *PASS SVEXT LD 8BD0391C SVIO RESTORE ACCUM 027D 00 0C0001BA XIO L UNMKO 8BD03920 UNMASK ALL LEVELS 027F 00 0C0001BC XIO L 8BD03930 UNMK1 0281 00 4CC00242 8BD03940 BOSC I SVINT EXIT ΙX 8BD03950 8BD03960 CONSTANTS 8BD03970 0283 0 001F S VO DC 8BD03980 /001F NUMBER OF AREA CODES 0284 0 00FF SVI DC 98D03990 /00FF NUMBER OF MODIFIERS 0285 0 0701 SV2 DC 8BD04000 /0701 RESET DSW 0286 0 0700 SV3 DC 8BD04010 /0700 RESET PISM 0287 n 0000 SV4 DC 8BD04020 0 AREA CODE INDICATOR 0288 0 0000 SV5 DC 8BD04030 MODIFIER INDICATOR 0289 0 0000 SV6 8BD04040 DC TOCC IN USE 028A 0 0000 SV7 DC 88D04050 PASS SWITCH 88D04060

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

02 8C 00	000	BSS E	0		
0280 0 00	01V2 000	DC	0	SENIE DEN TOCC	8BD04070
028D 0 00	000	DC	Ŏ	SENSE DSM IOCC	8BD04080
	*XXXX	XXXXXXXX		××××××××××××××××××××××××××××××××××××××	8BD04090
	*				8BD04100
	*		ROUT	INE TO SET 7F PATTERN	88D04110 8BD04120
	*				8BD04130
028E 0 00	*XX XX *7F 00	XXXXXXXX	XXXXXXXXXXX	******	8BD04140
	00 SP7F 08	DC	0	SF	8BD04150
	12	LDX 3	8	IX 3 = 16 CHARACTERS	8BD04160
0291 00 D7	000938 SP7F0		P7F IOAA-1	GET 7F7F	8BD04170
0293 0 73			-1	SET IN I/O AREA DECR IX 3	8BD04180
0294 0 70		MDX	SP7F0	LOOP	8BD04190
0295 00 67		LDX L3	305	IX 3= 608 CHARACTERS	8BD04200
029 / 0 10	T 1	SLA	16	CLEAR A REG	8BD04210
0298 00 D7 029A 0 73			IOAA+7	SET IN I/O AREA	8BD04220 8BD04230
029A 0 73			-1	DECR IX 3	8BD04240
0290 0 00	-	MDX	SP7F1	LOOP	8BD04250
029D 00 D4	000942	LD Sto L	CRC7F	GET 007F	8BD04260
029F 00 D4	000944	STO L	IDAA+9	SET AS CRC CHARACTER	8BD04270
02A1 00 4C	80028E	BSC I	IOAA+11 SP7F	SET AS LRC CHARACTER	8BD04280
		550 1	3777	EXIT	8BD04290
			CONST	ANTC	8BD04300
					8BD04310
02A3 0 7F1		DC	/7F7F	PATTERN WORD	8BD04320 8BD04330
0244 0 007	U 10 11		/007F	CRC/IRC CHARACTER	8BD04340
	*XXXX)	(XXXXXXXX	(XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXX	8BD04350
	*				8BD04360
			ROUTI	NE TO SET 8F PATTERN	8BD04370
	****	******	· • • • • • • • • • • • • • • • • • • •	******	8BD04380
02A5 0 000	O SPBF	DC .	0		8BD04390
0246 0 630		LDX 3		IX 3 = 16 CHARACTERS	88D04400
02A7 00 C40		LD L	P8F	GET PATTERN	8BD04410
02A9 00 D70		STO L3	IOAA-1	SET IN I/O AREA	8BD04420 8BD04430
02AB 0 73F 02AC 0 70F			-1	DECR IX 3	8BD04440
02AC 0 70F 02AD 00 670		MDX	SP8F0	LOOP	8BD04450
02AF 0 101			305	IX 3= 608 CHARACTERS	8BD04460
02 BO 00 D70		SLA STO 12	16	CLEAR A REG	8BD04470
0282 0 73F	_	MDX 3	IOAA+7	SET IN I/O AREA	8BD04480
02B3 0 70F			SP8F1	DECR IX 3 LOOP	8BD04490
0284 0 COO	6		CRC8F	GET 008F	8BD04500
0285 00 D40	00942		IDAA+9	SET AS CRC CHARACTER	8BD04510
02B7 00 D40	00944		I OAA+ 11	SET AS LRC CHARACTER	8BD04520
02B9 00 4C8		BSC I	SP8F	EXIT	8BD04530 8BD04540
	*				8BD04550
	*		CONST	ANTS	8BD04560
0288 0 008	•	0.0	10005		8BD04570
0200	•		/008F	CRC/LRC CHARACTER	8BD04580
	*	^^^^	*****	CXXXXXXXXXXXXXXXXXXXXX	8BD04590
	*		SET T	'O AREA TO 8080	8BD04600
	*		321 17	O AREA TO 8080	8BD04610
	* XX XX X	XXXXXXXX	×××××××××	XXXXXXXXXXXXXXXXXXXXXX	8BD04620
02BC 0 0000	3700 (OC ()	SE	8BD04630
02BD 0 630t	``	_DX 3 (3	IX 3 = 16 CHARACTERS	8BD04640 8BD04650
02BE 00 C400 02C0 00 D700			80	GET 8080	8BD04660
02C2 0 73FF			OAA-1	SET IN I/O AREA	8BD04670
02C3 0 70F0		1DX 3 -	1	DECR IX 3	8BD04680
0204 00 6700		_		LOOP	8BD04690
0206 0 1010) -			IX 3 = 608 CHARACTERS	8BD04700
02C7 00 D700		_		CLEAR A REG	8BD04710
02C9 0 73FF	N	IDX 3 -	_	SET IN I/O AREA DECR IX 3	8BD04720
02CA 0 70FC				LOOP	8BD04730
					8BD0 47 40

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02CB 0	C006 D4000942		LD		CRC80	GET CRC/LRC CHARACTI	ER	88D04750
0200 00	D4000942		STO	L	IDAA+9	SET AS CRC CHARACTE	₹	8BD04760
	4C8002BC		STO	L	IOAA+11	SET AS LRC CHARACTE	₹	8BD04770
02D2 0	0080	50500	B SC	I	SP80	EXIT	SX	8BD04780
0203 0		CRC 80			/0080	CRC/LRC CHARACTER		8BD04790
(1203 U	8080	P80	DC		/8080	PATTERN		88D048C0
		*XXXX	XXXXX	XXX	(XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX	(X	8BD04810
		*						8BD04820
		*			WRIT	E ROJTINE		8BD04830
		*						88D04840
		*XXXX	XXXXX	XXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX	Y	8BD04850
02D4 0	0000	WRT	DC		0		SE	88D04860
	C50001B8	WRT 01	LD	Ll	TAPEO	GET AREA CODE	3.0	8BD04870
02D7 0	F04E		EOR		WRTCC	SET WRT FNC		
0208 0	DO4A		STO		WRIDC+1	SAVE		88D04880
0209 0	C051		LD		WRTWC	GET WRT WD CT		8BD04890
02DA 00	D4000938		STO	L	IOA	SET		8BD04900
		*						8BD04910
	4400041E	WRT02	BSI	L	SNDSW	SENSE DRIVE	SRC	8BD04920
02DE 0	1801		SRA		1	JENSE BRIVE	3 KC	88D04930
02DF 0	4804		E SC		E	IS DR READY		88D04940
02E0 0	7011		MDX		WRT04	NO READY		8BD04950
		*				110		88D04960
02E1 0	0840		XIO		WRIDC	HPITE ONE DECOME		8BD04970
02E2 0	3004	WAIT4			4	WRITE ONE RECORD		8BD04980
					•	WAIT FOR INTRPT		8BD04990
02E3 00	C400023A		LD	L	DSW	CET SENSE HORD		8BD05000
02E5 0	1802		SRA	_	2	GET SENSE WORD		8BD05010
02E6 0	4804		BSC		E	75 TARS MASHES		8BD05020
02E7 0	7036		MDX		WRT11	IS TAPE MARKER ON		8BD05030
		*	110 %		MKITT	YES		8BD05040
02E8 00	C400023A	•	LD	L	D.C.U			8BD05050
OZEA O	E03C		AND	L	DSW	GET SENSE WD		88005060
02EB 0	4820		BSC		WRTSW			8BD05070
02EC 0	700E				7	IS WORD AS EXPECTED		88005080
3223 0	1000	•	MDX		WRT06	NO		8BD05090
02ED 0	C03A	•						8BD05100
02EE 0	4820		LD		WRERR	GET ERROR COUNT		8BD05110
02EF 0	7026		B SC		2	WERE THERE ANY EPRS		8BD05120
_	4C8002D4		MDX	_	WRT09	YES		8BD05130
0210 00	4000204	WRT03	BZC	I	WRT	EXIT	SX	8BD05140
		*						88D05150
		*			DRIVE	WAS NOT READ?		8BD05160
0252.00	((000/34	*						8BD05170
	4400043A	WRT04		L	PRINT	PRINT DR NOT READY		8BD05180
	E002		DC		/E002	ERROR 2		88D05190
	0003		DC		/0003	FORM 3		8BD05200
	7001		MDX		WRT05	CONTINUE		8BD05210
	70E4		MDX		WR TO 2	LOOP ON ERROR		8BD05220
	1010	WRT 05	SLA		16	CLEAR ERROR CT		
	D02E		STO		WRERR			88D05230
02FA 0	3005	WAIT5	HAIT		5	TERMINATE PROG		8BD05240
		*				TEMPERATE TROO		8BD05250
		*			DSW N	OT AS EXPECTED		88005260
		*				or as exicoled		8BD05770
02FB 0	C02C	WRT 06	LD		WRERR	GET ERROR CT		8BD05280
02FC 00	84000684		A	L	ONE	ADD ONE		8BD05290
02FE 0	D058		STO	_	WRERR	SAVE		8BD05300
02FF 0	9029		S		FOUR	SUB 4		8BD05310
	4820		BSC		2			8BD05320
0301 0	700B		MDX		WR TO8	RETRIED 3 TIMES		8BD05330
0302 00	C400023A			L	DSW			8BD05340
0304 00	D4000438			l	SNSV	GET SENSE WD		8BD05350
0306 00	4400043A				PRINT	SAVE		8BD05360
	E003		DC	-	/E003	PRINT-CAN NOT WRITE	SRC	8BD05370
	0003		D C			ERROR 3		8BD05380
	70ED		MDX		/0003	FORM 3		8BD05390
	1010	WRT 07			WR T05	CONTINUE		8PD05400
	DO18				16	CLEAR ERR CT		8BD05410
			STO		WRERR			8BD05420

DATE EC NO. 01MAY66 04NOV66 415120A 415233

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

PART NO. 2183275 PAGE 5

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

በገለና			#						8BD05430
0500	00	440003C4	WRT 08	BSI	L	BSP	GO BACKSPACE		
030F	00	C50001B8		LD		TAPEO			8BD05440
0311		F012					GET AREA CODE		8BD05450
0312				EOR		ERA	SET ERASE FNC		8BD05460
		D012		STO		ERA+1	SET		8BD05470
0313	0	0810		XIO		ERA	ISSUE ERASE		8BD05480
			*				TOTAL CHASE		
0314	0	3006	WAIT6	MATT		6	MAIT FOR THEFE		8BD05490
	-	2000	*~1.10	***		0	WAIT FOR INTRPT		8BD05500
0316	_	7005	-						8BD05510
0315	U	70BF		MDX		WRT01	TRY AGAIN		8BD05520
			*						
			*			HAD E	RRORS		8BD05530
			*			11.70	.KKUK3		8BD05540
0316	۸۸	4400043A	UD T OO						8BD05550
			WR T 09		L	PRINT	PRINT RECOVERED WRT		88005560
0318		A 00 1		DC		/A001	MSG 1		8BD05570
0319	0	0004		ЭC		/0004	FORM 4		
031 A	0	7000		MDX		WRT10	CONTINUE		88005580
031B	0	1010	WRT10						8BD05590
031C		D00B	MAILU			16	CLEAR ERROR CT		8BD05600
				STO		WRERR			8BD05610
031D		70D2		MOX		WRT03	CO EXIT		8BD05620
031E	00	440003F6	WRT11	BSI	L	RWD	GO REWIND	cnc	
0320	0	70B4		MDX		WRT01	WRITE	SRC	8BD05630
			*			MKIOI	MKTIE		8BD05640
									8BD05650
			*			CONST	ANTS		8BD05660
			*						8BD05670
0322		0000		BSS	Ε	0			
0322	0	0938	WRIDC		_	IDA	HRITE TOCC		8BD05680
0323		0000	WINTOC				WRITE IOCC		8BD0 5690
0323	•	0000	_	DC		0			8BD05700
	_		*						8BD05710
0324	0	0402	ERA	DC		/0402	ERASE IOCC		
0325	0	0000		DC		0	2		8BD05720
			*			•			8BD05730
0326	Λ	0500							8BD05740
		0500	WRTCC			/0500	WRITE FNC		8BD05750
0327	-	3DBF	WRTSW	DC		/3DBF	DSW CK-WRITE		
						7 3 0 0 1			
0328	0	0000	WRERR						8BD05760
			WRERR	DC		0	ERROR CT		8BD05770
0329	0	0004	FOUR	DC DC		0	ERROR CT Constant		
0329 032 A	0	0004 000B	FOUR ELE	DC DC DC		0 4 11	ERROR CT Constant Constant		8BD05770
0329	0	0004	FOUR ELE WRTWC	DC DC DC		0 4 11 /4139	ERROR CT CONSTANT CONSTANT WRT WD CT		8BD05770 8BD05780 8BD05790
0329 032 A	0	0004 000B	FOUR ELE WRTWC	DC DC DC	(XX)	0 4 11 /4139	ERROR CT CONSTANT CONSTANT WRT WD CT	¥	8BD05770 8BD05780 8BD05790 8BD05800
0329 032 A	0	0004 000B	FOUR ELE WRTWC	DC DC DC	(XX)	0 4 11 /4139	ERROR CT Constant Constant	ĸ	8BD05770 8BD05780 8BD05790 8BD05800 8BD05810
0329 032 A	0	0004 000B	FOUR ELE WRTWC *XXXXX	DC DC DC	(XX)	0 4 11 /4139 (XXXXXXXXX	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	x	8BD05770 8BD05780 8BD05790 8BD05800 8BD05810 8BD05820
0329 032 A	0	0004 000B	FOUR ELE WRTWC *XXXXX	DC DC DC	(XX)	0 4 11 /4139 (XXXXXXXXX	ERROR CT CONSTANT CONSTANT WRT WD CT	x	8BD05770 8BD05780 8BD05790 8BD05800 8BD05810
0329 032 A	0	0004 000B	FOUR ELE WRTWC *XXXXX	DC DC DC CXXXXX		0 4 11 /4139 (XXXXXXXXX READ (ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8BD05770 8BD05780 8BD05790 8BD05800 8BD05810 8BD05820 8BD05830
0329 032A 032B	0 0	0004 000B 4139	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC CXXXXX		0 4 11 /4139 (XXXXXXXXX READ (ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8BD05770 8BD05780 8BD05790 8BD05800 8BD05810 8BD05820 8BD05830 8BD05840
0329 032A 032B	0 0 0	0004 000B 4139	FOUR ELE WRTWC *XXXXX	DC DC DC CXXXXX		0 4 11 /4139 (XXXXXXXXX READ (ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05800 8BD05810 8BD05820 8BD05830 8BD05840 8BD05850
0329 032A 032B	0 0 0	0004 000B 4139	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC (XXXX)	(XX)	0 4 11 /4139 (XXXXXXXXX READ (ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8BD05770 8BD05780 8BD05790 8BD05800 8BD05820 8BD05830 8BD05830 8BD05840 8BD05860
0329 032A 032B	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C5000188	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC CXXXXX	(XX) L1	0 4 11 /4139 (XXXXXXXXX READ (XXXXXXXXXX 0 TAPEO	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05800 8BD05810 8BD05820 8BD05830 8BD05840 8BD05850
0329 032A 032B 032C 032D 032F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BE	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC (XXXXX)	(XX) L1 L	0 4 11 /4139 (XXXXXXXXXX READ ((XXXXXXXXXXX 0 TAPEO RDFNC	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05800 8BD05820 8BD05830 8BD05830 8BD05840 8BD05860
0329 032A 032B 032C 032C 032F 0331	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BE D40003BD	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC XXXXXX XXXXXX DC LD EOR STO	(XX) L1	0 4 11 /4139 (XXXXXXXXXX READ ((XXXXXXXXXXX 0 TAPEO RDFNC RDIOC+1	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05870 8BD05880
0329 032A 032B 032C 032C 032F 0331 0333	0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BA	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC (XXXXX)	(XX) L1 L	0 4 11 /4139 (XXXXXXXXXX READ ((XXXXXXXXXXX 0 TAPEO RDFNC	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05780 8BD05800 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05870 8BD05880 8BD05880
0329 032A 032B 032C 032C 032F 0331 0333 0335	0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BA D4000938	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC XXXXXX XXXXXX DC LD EOR STO	(XX) L1 L	0 4 11 /4139 (XXXXXXXXXX READ ((XXXXXXXXXXX 0 TAPEO RDFNC RDIOC+1	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05850 8BD05860 8BD05870 8BD05880 8BD05880 8BD05890
0329 032A 032B 032C 032C 032F 0331 0333 0335	0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BA D4000938	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC XXXXXX XXXXXX DC LD EOR STO LD STO	(XX) L1 L L L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910
0329 032A 032B 032C 032C 032F 0331 0333 0335	0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353	FDUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC DC XXXXXX DC LD EOR STO LD STO	(XX) L1 L L L L	O 4 11 /4139 (XXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDIOC+1 RDIWC IOA RDE+1	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05850 8BD05860 8BD05870 8BD05880 8BD05890 8BD05900
0329 032A 032B 032C 032C 032F 0331 0333 0335 0337	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D4000938 6F000353 4400041E	FOUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC CXXXXXX DC LD EOR STO LD STO STA BSI	(XX) L1 L L L	O 4 11 /4139 (XXXXXXXXXXX READ (XXXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ĸ	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910
0329 0328 0328 032C 032D 032F 0331 0335 0335 0337 0339	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D400093B 6F000353 4400041E 1801	FDUR ELE WRTWC *XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DC DC DC DC XXXXXX DC LD EOR STO LD STO	(XX) L1 L L L L	O 4 11 /4139 (XXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDIOC+1 RDIWC IOA RDE+1	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05860 8BD05890 9BD05910 8BD05920 8BD05930
0329 032A 032B 032C 032C 032F 0331 0333 0335 0337 0338 0338	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4470041E 1801	FOUR ELE WRTWC *XXXXX * * * * *XXXXX RD	DC DC DC CXXXXX CXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXX CXXXXX CXXXXX CXXXX CXXX CXXXX CXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXX CXXXX CXXX CXXXX CXXXX CXXX CX	(XX) L1 L L L L	O 4 11 /4139 (XXXXXXXXXXX READ (XXXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05800 8BD05810 8BD05810 8BD05820 8BD05840 8BD05860 8BD05860 8BD05860 8BD05870 8BD05890 9BD05910 8BD05920 8BD05930 8BD05940
0329 032A 032B 032C 032C 032F 0331 0333 0335 0337 0338 0338	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4470041E 1801	FOUR ELE WRTWC *XXXXX * * * * *XXXXX RD	DC DC DC CXXXXX CXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXX CXXXXX CXXXX CXXX CXXXX CXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXX CXXXX CXXX C	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC I OA RDFWC I DA RDFWC I DE RD	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05890 8BD05810 8BD05810 8BD05820 8BD05840 8BD05860 8BD05860 8BD05870 8BD05870 8BD05890 8BD05910 8BD05910 8BD05920 8BD05930 8BD05940 8BD05950
0329 0328 0328 032C 032D 032F 0331 0335 0335 0337 0339	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4470041E 1801	FDUR ELE WRTWC *XXXXX * * * * *XXXXX RD	DC DC DC DC XXXXXX QXXXXX DC LD EOR STO LD STO STA BSI SRA	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05850 8BD05870 8BD05870 8BD05890 8BD05910 8BD05920 8BD05930 8BD05940 8BD05940 8BD05940
0329 032A 032B 032C 032D 032F 0335 0337 0339 0338 033C 033D	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353 4400041E 1801 4804 7018	FOUR ELE WRTWC *XXXXX * * * * *XXXXX RD	DC DC DC CXXXXX CXXXXX DC LD EOR STO LD STO STA BSI BSI BSC MDX	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1 E RDO2	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05890 8BD05810 8BD05810 8BD05820 8BD05840 8BD05860 8BD05860 8BD05870 8BD05870 8BD05890 8BD05910 8BD05910 8BD05920 8BD05930 8BD05940 8BD05950
0329 032A 032B 032C 032C 032F 0331 0333 0335 0337 0338 0338	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4470041E 1801	FDUR ELE WRTWC *XXXXX * * * * *XXXXX RD	DC DC DC CXXXXX CXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXXX CXXXX CXXXXX CXXXX CXXX CXXXX CXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXXX CXXX CXXXX CXXX C	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC I OA RDFWC I DA RDFWC I DE RD	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05790 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910 8BD05910 8BD05920 8BD05940 8BD05940 8BD05940 8BD05950 8BD05950 8BD05960 8BD05970
0329 032A 032B 032C 032C 0331 0333 0335 0337 0338 033C 033D	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D400093B 6F000353 4400041E 1801 4804 7018	FDUR ELE WRTWC *XXXXX * * * * * * *AXXXXX RD RD01	DC DC DC DC XXXXXX CXXXXX DC LD EOR STO LD STO STA BSC MDX	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1 E RDO2	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05800 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910 8BD05910 8BD05920 8BD05920 8BD05930 8BD05940 8BD059590 8BD059590
0329 032A 032B 032C 032D 032F 0335 0337 0339 0338 033C 033D	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353 4400041E 1801 4804 7018	FDUR ELE WRTWC *XXXXX * * * * * * *AXXXXX RD RD01	DC DC DC DC XXXXXX CXXXXX DC LD EOR STO LD STO STA BSC MDX	L1 L L L L L L L L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1 E RDO2	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910 8BD05910 8BD05910 8BD05920 8BD05930 8BD05940 8BD059590 8BD05960 8BD05970 8BD05970 8BD05980 8BD05990
0329 032A 032B 032C 032C 0331 0333 0335 0337 0338 033C 033D	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D400093B 6F000353 4400041E 1801 4804 7018	FDUR ELE WRTWC *XXXXX * * * * *XXXXX RD	DC DC DC DC XXXXXX CXXXXX DC LD EOR STO LD STO STA BSC MDX	L1 L L L L L L L L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1 E RDO2 RDIOC	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05870 8BD05890 8BD05910 8BD05920 8BD05920 8BD05930 8BD05940 8BD05940 8BD05950 8BD05960 8BD05960 8BD05980 8BD05980 8BD05980 8BD05980
0329 032A 032B 032C 032F 0331 0333 0335 0337 0338 033C 033B	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4470041E 1801 4804 7018 087D	FDUR ELE WRTWC *XXXXX * * * *XXXXX RD RD01	DC DC DC DC (XXXX) (XXXX) CXXXX DC EOR STO LD STO ST & BSI SRA BSC MDX XIO	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC I DA RDE+1 SNDSW 1 E RDO2 RDIOC 7	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05800 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05870 8BD05870 8BD05890 8BD05910 8BD05910 8BD05920 8BD05930 8BD05940 8BD05940 8BD05940 8BD05950 8BD05960 8BD05970 8BD05980 8BD05990 8BD05990 8BD05990
0329 032A 032B 032C 032D 032F 0331 0335 0337 0338 033C 033D 033E 033F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353 4470041E 1801 4804 7018 087D 3007	FDUR ELE WRTWC *XXXXX * * * *XXXXX RD RD01	DC DC DC CXXXXXX (XXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDFNBSW 1 E RDO2 RDIOC 7 DSW	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05870 8BD05890 8BD05910 8BD05920 8BD05920 8BD05930 8BD05940 8BD05940 8BD05950 8BD05960 8BD05960 8BD05980 8BD05980 8BD05980 8BD05980
0329 032A 032B 032C 032D 033F 0335 0337 0338 033C 033D 033E 033F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4400041E 1801 4804 7018 087D 3007	FDUR ELE WRTWC *XXXXXX * * *XXXXX RD RD01	DC DC DC CXXXXX CXXXXX LD EOR STO LD STTA BSI SRA BSC MDX XIO WAIT LD AND	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC I DA RDE+1 SNDSW 1 E RDO2 RDIOC 7	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05800 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05850 8BD05870 8BD05870 8BD05890 8BD05910 8BD05920 8BD05930 8BD05930 8BD05940 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05950 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990
0329 032A 032B 032C 032C 0331 0333 0335 0337 0338 033C 033B 033C 033B	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D400093B 6F000353 4400041E 1801 4804 7018 087D 3007 C400023A E07C 4820	FDUR ELE WRTWC *XXXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXX (XXXXXXXXXXXXXXXXXXXXXX	L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDFNBSW 1 E RDO2 RDIOC 7 DSW	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05800 8BD05810 8BD05820 8BD05840 8BD05850 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910 8BD05910 8BD05920 8BD05940 8BD05950 8BD05960 8BD05960 8BD05960 8BD05960 8BD05990 8BD05960 8BD05990 8BD05960
0329 032A 032B 032C 032D 033F 0335 0337 0338 033C 033D 033E 033F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4400041E 1801 4804 7018 087D 3007	FDUR ELE WRTWC *XXXXX * * * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDIOC+1 RDTWC IOA IOA RDE+1 SNDSW 1 E RD02 RD10C 7 DSW RD1DS Z	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910 8BD05910 8BD05920 8BD05920 8BD05920 8BD05940 8BD05970 8BD05970 8BD05970 8BD05970 8BD05970 8BD05990 8BD06000 8BD060120 8BD060120 8BD06010
0329 032A 032B 032C 032C 0331 0333 0335 0337 0338 033C 033B 033C 033B	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D400093B 6F000353 4400041E 1801 4804 7018 087D 3007 C400023A E07C 4820	FDUR ELE WRTWC *XXXXX * * * * *XXXXX RD RD01	DC DC DC CXXXXX CXXXXX LD EOR STO LD STTA BSI SRA BSC MDX XIO WAIT LD AND	L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05870 8BD05890 8BD05910 8BD05920 8BD05920 8BD05920 8BD05920 8BD05920 8BD05920 8BD05930 8BD05940 8BD05940 8BD05970 8BD05970 8BD05970 8BD05970 8BD06020 8BD06020 8BD06020 8BD06030 8BD06030
0329 032A 032B 032C 032F 0331 0333 0335 0337 0338 033C 033B 033C 033B	000000000000000000000000000000000000000	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4400041E 1801 4804 7018 087D 3007 C400023A E07C 4820 7019	FDUR ELE WRTWC *XXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXXX READ (XXXXXXXXXX TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1 E RDO2 RDIOC 7 DSW RDIOC 7 DSW RDIOS Z RDO4	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SE SRC	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05870 8BD05890 8BD05910 8BD05910 8BD05920 8BD05920 8BD05940 8BD05940 8BD05940 8BD05940 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05990 8BD05980 8BD05980 8BD05980 8BD06000 8BD06000
0329 032A 032B 032C 032F 0331 0333 0335 0337 0338 033C 033B 033C 033B	000000000000000000000000000000000000000	0004 0008 4139 0000 C50001B8 F40003BE D40003BD C40003BA D400093B 6F000353 4400041E 1801 4804 7018 087D 3007 C400023A E07C 4820	FDUR ELE WRTWC *XXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L3 L	O 4 11 /4139 (XXXXXXXXXXX READ (XXXXXXXXXX O TAPEO RDFNC RDIOC+1 RDTWC IOA IOA RDE+1 SNDSW 1 E RD02 RD10C 7 DSW RD1DS Z	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X S E	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05840 8BD05840 8BD05860 8BD05860 8BD05870 8BD05890 8BD05910 8BD05920 8BD05920 8BD05920 8BD05920 8BD05920 8BD05920 8BD05930 8BD05940 8BD05940 8BD05970 8BD05970 8BD05970 8BD05970 8BD06020 8BD06020 8BD06020 8BD06030 8BD06030
0329 032A 032B 032C 032D 033F 0333 0335 0337 0338 0336 0337 0340 0342 0343 0344	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353 4470041E 1801 4804 7018 087D 3007 C400023A E07C 4820 7019	FDUR ELE WRTWC *XXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L	O 4 11 //4139 (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SE SRC	8BD05770 8BD05780 8BD05780 8BD05890 8BD05810 8BD05810 8BD05820 8BD05840 8BD05860 8BD05870 8BD05870 8BD05890 8BD05910 8BD05910 8BD05920 8BD05920 8BD05930 8BD05940 8BD05940 8BD05990 8BD06000 8BD06000 8BD06000 8BD06000
0329 032A 032B 032C 032F 0331 0333 0335 0337 0338 033C 033B 033C 033B	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 000B 4139 0000 C50001B8 F40003BD C40003BA D4000938 6F000353 4400041E 1801 4804 7018 087D 3007 C400023A E07C 4820 7019	FDUR ELE WRTWC *XXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L	O 4 11 /4139 (XXXXXXXXXXX READ (XXXXXXXXXX TAPEO RDFNC RDFNC RDIOC+1 RDTWC IOA RDE+1 SNDSW 1 E RDO2 RDIOC 7 DSW RDIOC 7 DSW RDIOS Z RDO4	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SE SRC	8BD05770 8BD05780 8BD05780 8BD05800 8BD05810 8BD05820 8BD05840 8BD05850 8BD05860 8BD05860 8BD05870 8BD05860 8BD05910 8BD05910 8BD05910 8BD05910 8BD05940 8BD05960 8BD05960 8BD05960 8BD05960 8BD05960 8BD06010 8BD06010 8BD06020 8BD06010 8BD06050 8BD06050 8BD06050 8BD06050
0329 032A 032B 032C 032D 033F 0333 0335 0337 0338 0336 0337 0340 0342 0343 0344	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353 4470041E 1801 4804 7018 087D 3007 C400023A E07C 4820 7019	FDUR ELE WRTWC *XXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L	O 4 11 //4139 (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SE SRC	8BD05770 8BD05780 8BD05780 8BD05810 8BD05810 8BD05820 8BD05830 8BD05840 8BD05860 8BD05860 8BD05860 8BD05890 8BD05910 8BD05910 8BD05920 8BD05920 8BD05940 8BD05950 8BD05960 8BD05970 8BD05970 8BD05970 8BD05970 8BD06010 8BD06010 8BD06010 8BD06010 8BD06010 8BD06010 8BD06010 8BD06010 8BD06010
0329 032A 032B 032C 032D 033F 0333 0335 0337 0338 0336 0337 0340 0342 0343 0344	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004 0008 4139 0000 C50001B8 F40003BD C40003BD C40003BA D4000938 6F000353 4470041E 1801 4804 7018 087D 3007 C400023A E07C 4820 7019	FDUR ELE WRTWC *XXXXX * * *XXXXX RD RD01	DC DC DC CXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XX) L1 L L L L L	O 4 11 //4139 (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ERROR CT CONSTANT CONSTANT WRT WD CT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SE SRC	8BD05770 8BD05780 8BD05780 8BD05800 8BD05810 8BD05820 8BD05840 8BD05850 8BD05860 8BD05860 8BD05870 8BD05860 8BD05910 8BD05910 8BD05910 8BD05910 8BD05940 8BD05960 8BD05960 8BD05960 8BD05960 8BD05960 8BD06010 8BD06010 8BD06020 8BD06010 8BD06050 8BD06050 8BD06050 8BD06050

DATE 01MAY66 04NDV66 EC NO. 415120A 415233 PROG ID 08BD-0

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

PART NO. 2183276 PAGE 5A

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

	0	3008		WAIT		8	WAIT FOR INTRPT		8BD06110
0349	00	C400023A	*			5611			8BD06120
0348	0	E074		LD and	L	DSW RD2DS	GET SENSE WD		8BD06130
0340		4820		BSC		Z Z	TE DEM DE		8BD06140
0340		7010		MDX		RD04	IS DSW OK NO		8BD06150
			*			11004	NO		8BD06160
034E	00	C4000328		LD	L	WRERR	GET ERROR CT		8BD06170
0350		4820		BSC	_	2	ANY ERRORS		88D06180 8BD06190
0351		7059		MDX		RD07	YES		8BD06200
		67000000	RDE	LDX	L3	0	RESTORE IX 3		8BD06210
0354	00	4C80032C		B SC	I	RD	EXIT	SX	8BD06220
			*						8BD06230
			*			DRIVE	IS NOT READY		8BD06240
0356	00	4400043A	# RD02	BSI		00747			8BD06250
0358		E004	KUUZ	DC	L	PRINT /E004	PRINT-NOT READY		8BD06260
0359		0003		DC		/0003	ERROR 4 Form 3		8BD06270
035A	0	7001		MDX		RD03	CONTINUE		8BD06280
0358	0	70DD		MDX		RD01	LOOP ON ERROR		88D06290
035C	00	4C0002F8	RD03	B SC	L	WRT05	GO TERMINATE PROG		8BD06300 8BD06310
							or verminate thou		8BD06320
			*			SENSE	WORD IS NOT CORRECT		8BD06330
0255	~~	6.000000	*						8BD06340
		C400023A	RD04	LD	L	DSW	GET SENSE WORD		8BD06350
0360 0361		E 060 4820		AND		CORDS			8BD06360
0362		7036		BSC		7	IS ERROR CORRECTABLE		8BD06370
		C4000328		MDX LD	L	RD05	NO		8BD06380
0365		E044		AND	L	WRERR RDTXO	GET ERROR CT SAVE RETRY CT		8BD06390
0366	0	9042		S		K009	SUB 9		8BD06400
0367	0	4818		BSC		+-	IS CT = 9		8BD06410
0368		7007		MDX		CLN	YES		8BD06420 8BD06430
		C4000328		LD	L	WRERR	GET ERROR CT		8BD06440
		84000684		A	L	ONE	ADD 1		8BD06450
Uacu	υu	D4000328		STO	L	WRERR	CAVE		
	^	7044			-		SAVE		8BD06460
036F	0	7044		MDX	•	RD09	GO RETRY		8BD06460 8BD06470
	0	7044	*			RD09	GO RETRY		
	0	7044	*			RD09			8BD06470 8BD06480 8BD06490
036F 0370	00	7044 C4000328		MDX		RD09 GO PA	GO RETRY ST CLEANER		8BD06470 8BD06480 8BD06490 8BD06500
036F 0370 0372	00 0		*		L	RD09	GO RETRY ST CLEANER GET ERROR CT		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510
036F 0370 0372 0373	00 0 0	C4000328 1808 9035	*	MD X		GO PA:	GO RETRY ST CLEANER		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520
036F 0370 0372 0373 0374	00 0 0 0	C4000328 1808 9035 4C180399	*	MDX LD SRA S BSC		GD PA: WRERR 8	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530
036F 0370 0372 0373 0374 0376	00 0 0 0	C4000328 1808 9035 4C180399 8031	*	MDX LD SRA S BSC A	L	GO PA: WRERR 8 K009 RD05++-	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9		8BD06470 8BD06480 8BD06490 8BD06510 8BD06510 8BD06520 8BD06530 8BD06540
036F 0370 0372 0373 0374 0376 0377	00 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008	*	MDX LD SRA S BSC A SLA	L	RD09 GO PA: WRERR 8 K009 RD05,+- K010 8	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06540 8BD06550
036F 0370 0372 0373 0374 0376 0377	00 0 0 00 0	C4000328 1808 9035 4C180399 8031 1008 D4000328	* CLN	MDX LD SRA S BSC A SLA STO	L	GO PAS WRERR 8 KO09 RD05++- KO10 8 WRERR	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE		8BD06470 8BD06480 8BD06490 8BD06510 8BD06510 8BD06520 8BD06530 8BD06540
036F 0370 0372 0373 0374 0376 0377	00 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305	CLN	MDX LD SRA S BSC A SLA STO LDX	L L L	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06560 8BD06560 8BD06570 8BD06580
036F 0370 0372 0373 0374 0376 0377 0378	00 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808	* CLN	MDX LD SRA S BSC A SLA STO LDX STX	L L 3 3	GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3		8BD06470 8BD06480 8BD06490 8BD06510 8BD06510 8BD06520 8BD06530 8BD06540 8BD06550 8BD06560 8BD06570 8BD06580
036F 0370 0372 0373 0374 0376 0377 0378 0378	00 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305	CLN	MDX LD SRA S BSC A SLA STO LDX STX BSI	L L 3 L	GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 CAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE	SRC	8BD06470 8BD06480 8BD06490 8BD06510 8BD06510 8BD06520 8BD06530 8BD06540 8BD06550 8BD06570 8BD06570 8BD06580 8BD06590 8BD06600
036F 0370 0372 0373 0374 0376 0377 0378 0378	00 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4	CLN	MDX LD SRA S BSC A SLA STO LDX STX	L L 3 3	GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3	SRC SRC	8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06540 8BD06550 8BD06560 8BD06570 8BD06580 8BD06590 8BD06610
036F 0370 0372 0373 0374 0376 0377 0378 0378 037C 037E	00 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E	CLN	MDX LD SRA S BSC A SLA STO LDX STX BSI BSI	L L 3 L	RD09 GO PA: WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06540 8BD06550 8BD06560 8BD06570 8BD06580 8BD06580 8BD06600 8BD06610
036F 0370 0372 0373 0374 0376 0378 0378 037C 037E 0380 0381	00 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010	CLN1	MDX LD SRA SRA SLA SLA STO LDX STX BSI BSI SRA	L L 3 3 L	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 CAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06550 8BD06560 8BD06570 8BD06580 8BD06600 8BD06610 8BD06610
036F 0370 0372 0373 0374 0376 0377 0378 0378 0376 0380 0381 0382 0383	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000	CLN1	MDX LD SRA S BSC A SLA STO LDX STX BSI BSI SSRA BSC MDX LDX	L L 3 3 L L	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT		8BD06470 8BD06480 8BD06490 8BD06510 8BD06510 8BD06520 8BD06550 8BD06560 8BD06560 8BD06560 8BD06590 8BD06610 8BD06610 8BD06620 8BD06640
036F 0370 0372 0373 0374 0376 0378 0378 0378 0376 0380 0381 0382 0383	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF	CLN1	MDX LD SRA S BSC A SLD STX BSI BSI SRA BSI BSI MDX MDX	L L 3 1 L	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06550 8BD06560 8BD06570 8BD06580 8BD06600 8BD06610 8BD06610
036F 0370 0372 0373 0374 0378 0378 0378 0378 0378 0382 0381 0382 0383	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4	CLN1 CLN2 CLN3	MDX LD SRA SRA SLO STX BSI BSI BSI BSI BSI BSI BSI BSI BSI BSI	L 1 3 3 1 1	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06540 8BD06550 8BD06570 8BD06570 8BD06580 8BD06580 8BD06610 8BD06620 8BD0663 8BD06650 8BD06650 8BD06650
036F 0370 0372 0373 0374 0376 0378 0378 0376 0380 0381 0382 0383 0383	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305	CLN1 CLN2	MDX LD SRASS C A STOLDX STXI BSI SRABSC MDX MDX LDX	L 3 3 L L 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06550 8BD06570 8BD06580 8BD06590 8BD06610 8BD06610 8BD0663 8BD06640 8BD06650 8BD06650 8BD06650
036F 0370 0372 0373 0374 0378 0378 0378 0378 0378 0382 0381 0382 0383	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4	CLN1 CLN2 CLN3	MDX LD SRA S B SC A S S LD STX B S I	L 3 3 L L 3 3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN7+1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 CAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE SAVE IX 3		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06550 8BD06550 8BD06560 8BD06570 8BD06580 8BD06690 8BD06610 8BD06610 8BD06640 8BD06640 8BD06660 8BD06660 8BD06660
036F 0370 0372 0373 0374 0376 0377 0378 0378 0378 0380 0381 0382 0383 0385 0387 0388	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806	CLN1 CLN2 CLN3	MDX LD SRASS C A STOLDX STXI BSI SRABSC MDX MDX LDX	L 3 3 L L 3 3 3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN7+1 -1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE		8BD06470 8BD06480 8BD06490 8BD06510 8BD06510 8BD06520 8BD06550 8BD06550 8BD06560 8BD06560 8BD06590 8BD06610 8BD06610 8BD06620 8BD06650 8BD06660 8BD06670 8BD06670
036F 0370 0372 0373 0374 0376 0378 0378 0378 0381 0382 0383 0385 0386 0387 0388	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD	CLN1 CLN2 CLN3	MDX LD SRASS C SSTO LDX STX BSI BSRABSRA MDX LDX MDDX LDX MDDX STX MDX MDX LSTX MDX	L 3 3 L L 3 3 3 3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN7+1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 LOOP SET TO RESTORE SAVE IX 3 DECR IX 3 DECR IX 3 DECR IX 3		8BD06470 8BD06480 8BD06490 8BD06590 8BD06510 8BD06520 8BD06530 8BD06560 8BD06560 8BD06570 8BD06660 8BD06660 8BD06650 8BD06660 8BD06660 8BD06680 8BD06670 8BD06680
036F 0370 0372 0373 0374 0376 0378 0378 0378 0380 0381 0382 0383 0385 0386 0387 0388 0388		C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD	CLN3 CLN5 CLN6	MDX LD SRA SSRA SSTORESTSI BSSRA BSSRA LDX BSSI BSSRA LDX MDDX MDDX MDDX MDDX MDDX MDDX MDDX	L 3 3 L L S 3 3 3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN7+1 -1 CLN6	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 CAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE SAVE IX 3		8BD06470 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06550 8BD06560 8BD06570 8BD066600 8BD06637 8BD06660 8BD06660 8BD06660 8BD06670 8BD06680 8BD06680 8BD06680 8BD06680
036F 0370 0372 0373 0374 0376 0377 0378 0378 0380 0381 0382 0383 0385 0386 0387 0388 0388 0389 0386 0380		C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD 082F 300F	CLN1 CLN2 CLN3 CLN5 CLN6 WAITF	MDX LD SRA SSRA SSTOLDX SSSI BSSI BSSI BSSI BSSI BSSI BSSI BSS	L 3 3 L L S 3 3 3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN7+1 -1 CLN6 RD01	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 CAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE SAVE IX 3 DECR IX 3 DECR IX 3 DECR IX 3 DECR IX 3 DECR IX 3 DECR IX 3 DECR IX 3 DECR IX 3		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06550 8BD06570 8BD06560 8BD06660 8BD06660 8BD06660 8BD06660 8BD06660 8BD06670 8BD06670 8BD06670 8BD06720 8BD06720
036F 0370 0372 0373 0374 0376 0378 0378 0378 0380 0381 0382 0383 0385 0386 0388 0388 0388 0388 0388 0388 0388		C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD 082F 300F 67000000	CLN3 CLN5 CLN6 WAITF CLN7	MDX LD SRA SSTORMS SSTORMS SSTORMS SSTORMS SSTORMS SSTORMS SSSS SSS SSS SSS SSS SSS SSS SSS SSS	L L 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN2 5 CLN7+1 -1 CLN6 RD01 RD10C /300F 0	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE SAVE IX 3 DECR IX 3		8BD06470 8BD06490 8BD06500 8BD06510 8BD06520 8BD06530 8BD06550 8BD06550 8BD06560 8BD06570 8BD066600 8BD06637 8BD06660 8BD06660 8BD06660 8BD06670 8BD06680 8BD06680 8BD06680 8BD06680
036F 0370 0372 0373 0374 0376 0378 0378 0378 0381 0382 0383 0385 0386 0386 0386 0386 0386 0386 0386 0386		C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD 082F 300F 67000000 73FF	CLN3 CLN5 CLN6 WAITF CLN7	MDX LDRA SSBAC SSLTDX BSSLDTX BSSLDTX BSSLDTX BSSLDTX BSSLDTX MDDX MDDX MDDX MDDX MDDX MDDX MDDX M	L L 3 3 L L 3 3 3 3 3 3 3 3 3 3 3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN2 5 CLN7+1 -1 CLN6 RD01 RD10C /300F 0 -1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3		8BD06470 8BD06480 8BD06490 8BD06500 8BD06510 8BD06520 8BD06550 8BD06550 8BD06550 8BD06560 8BD06560 8BD06660 8BD06660 8BD06660 8BD06660 8BD06660 8BD06670 8BD06670 8BD06710 8BD06720 8BD06720
036F 0370 0372 0373 0374 0376 0378 0378 0381 0382 0383 0385 0386 0387 0386 0387 0386 0387 0386 0387 0386 0387 0387		C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD 082F 300F 67000000 73FF 70F6	CLN3 CLN5 CLN6 WAITF CLN7	MDX LDRASSBACSTDXXBSSIABDXXBBSRSCXLDDXXBBSRSCXXMMDDXXDCDXXMMDDXCDXXMMDDXCDXXMMDDXCDXXMMDDXCDXXMMDDXCDXXMMDDXCDXXXMMDDXCDXXXMMDXCDXXXMMDDXCDXXXMMDDXCDXXXMMDDXCDXXXMMDDXCDXXXMMDDXCDXXXMMDDXCDXXXMMDDXCDXXXMMDDXX	L L3 3 L L3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN7+1 -1 CLN6 RD01 RD10C /300F 0 -1 CLN5	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3 LOOP SET TO RESTORE SAVE IX 3 DECR IX 3		8BD06470 8BD06480 8BD06490 8BD06590 8BD06510 8BD06550 8BD06550 8BD06550 8BD06560 8BD06560 8BD06660 8BD06660 8BD06660 8BD06660 8BD06660 8BD06660 8BD06670 8BD06670 8BD06730 8BD06730 8BD06730
036F 0370 0372 0373 0374 0376 0378 0378 0378 0381 0382 0383 0385 0386 0386 0386 0386 0386 0386 0386 0386		C4000328 1808 9035 4C180399 8031 1008 D4000328 6305 6808 440003C4 4400041E 1803 4804 7010 67000000 73FF 7CF4 6305 6806 73FF 7001 70AD 082F 300F 67000000 73FF	CLN3 CLN5 CLN6 WAITF CLN7	MDX LDRA SSBAC SSLTDX BSSLDTX BSSLDTX BSSLDTX BSSLDTX BSSLDTX MDDX MDDX MDDX MDDX MDDX MDDX MDDX M	L L3 3 L L3 3 3 3	RD09 GO PAS WRERR 8 K009 RD05,+- K010 8 WRERR 5 CLN3+1 BSP SNDSW 3 E CLN8 0 -1 CLN2 5 CLN2 5 CLN7+1 -1 CLN6 RD01 RD10C /300F 0 -1	GO RETRY ST CLEANER GET ERROR CT SAVE CLEAN CT SUB 9 BRANCH = 9 ADD 10 SAVE SET TO PASS CLEANER SAVE IX 3 GO BACKSPACE SENSE DRIVE IS DR AT LD PT YES RESTORE IX 3 DECR IX 3		8BD06470 8BD06480 8BD06490 8BD06590 8BD06510 8BD06550 8BD06550 8BD06560 8BD06560 8BD06560 8BD06560 8BD06660 8BD06660 8BD06660 8BD06670 8BD06670 8BD06670 8BD06720 8BD06730 8BD06740 8BD06750 8BD06750

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

PART NO. 2183276 PAGE 6 Ō

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

PART NO. 218327

	•	DEC	TORE TAPE TO THE		8BD06790
	•		ORD IN ERROR		8BD06800
			OND IN ERROR		8BD06810
0393 0 C013	CLN8 LD	K005	GET 5		8BD06820 8BD06830
0394 0 90EF	S	CLN3+1	SUB PRESENT LOC		8BD06840
0395 0 DOEE 0396 00 67800384	STO	CLN3+1	SAVE		8BD06850
0398 0 70EF	LDX	13 CLN3+1	LOAD IX 3		8BD06860
0399 00 C400023A	MDX RDO5 LD	CLN5	GO RESTORE		8BD06870
039B 00 D4000438	STO	L DSW L SNSV	GET SENSE WD		8BD06880
039D 00 4400043A	351	L PRINT	SAVE PRINT UNCORRECTABLE		8BD06890
039F 0 E005	DC	/E005	ERROR 5		8BD06900
03A0 0 0003	DC	/0003	FORM 3		8BD06910
03A1 0 700E	MDX	RD08	CONTINUE		88D06920 8BD06930
03A2 0 1010	RDO6 SLA	16	CLEAR ERROR CT		8BD06940
03A3 00 D4000328 03A5 00 4C0003B4	STO	L WRERR			8BD06950
03A7 0 0005	8 S C K005 D C	L RD09	LOOP ON ERROR		8BD06960
03A8 0 000A	KOOS DC KO10 DC	5	CONSTANT 5		8BD06970
0349 0 0009	K009 DC	10 9	CONSTANT 10		8BD06980
03AA 0 00FF	RDT XO DC	/00FF	CONSTANT 9		8BD06990
	*	70011	SAVE RETRY CT		8BD07000
	*	HAD	PREVIOUS ERRORS		8BD07010
	•	5	. WETTOOS ERRORS		8BD07020
03AB 00 4400043A	RDO7 BSI	L PRINT	PRINT-RECOVERED READ	SRC	8BD07030 8BD07040
03AD 0 A002	DC	/A002	MSG 2	, J. ()	8BD07050
03AE 0 0004 03AF 0 7000	DC	/0004	FORM 4		8BD07060
03AF 0 7000 03B0 0 1010	MDX	RD 08	CONTINUE		8BD07070
03B1 00 D4000328	RDO8 SLA Sto	16	CLEAR ERROR CT		8BD07080
03B3 0 709E	MDX	L WRERR RDE	CO 5417		8BD07090
	*	KUE	GO EXIT		8BD07100
	•	SET	UP TO RETRY		8BD07110
	•	• • • • • • • • • • • • • • • • • • • •	o. TO KETKI		8BD07120
03B4 00 440003C4	RDO9 BSI	L BSP	GO BACKSPACE	SRC	8BD07130 8BD07140
0386 00 44000617	B S I	L DSLT	GO DESELECT	SRC	8BD07150
0388 00 40000335	B SC	L RDO1	GO RETRY		8BD07160
	*				8BD07170
	*	CONS	STANTS		8BD07180
03BA 0 4008	ROTWC DC	/4008	READ UD CT		8BD07190
03BC 0000	BSS	E 0	READ WD CT		8BD07200
03BC 0 0938	RDIGC DC	IOA	READ IOCC		88007210
03BD 0 0000	DC	0	WE 40 1000		8BD07220 8BD07230
0205 0 0405	*				8BD07240
03BE 0 0602 03BF 0 3D9F	RDFNC DC	/0602	READ FUNCTION		8BD07250
03BF 0 3D9F 03C0 0 3F9F	RDIDS DC	/3D9F	DSW CK-FIRST WORD		8BDU7260
03C1 0 3C0F	RD2DS DC CORDS DC	/3F9F	DSW CK-SECOND WORD		8BD07270
03C 2 0 0001	SELDR DC	/3C0F	DSW CK-CORRECTABLE		8BD07280
0303 0 0000	DC	1 0	SEL OTHER DR		8BD07290
		. x x x x x x x x x x x	xxxxxxxxxxxxxxxxxx	J	8BD07300
	*		~~~~~~~~~	X	8BD07310
	•	BACK	SFACE ROUTINE		8BD07320 8BD07330
	*				8BD07340
0304 0 0000	******	:xxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXX	X	88007350
03C4 0 0000 03C5 00 4400041E	R2b DC	0		SE	8BD07360
0307 0 1801	BSPO1 BSI Sra	L SNDSW	SENSE DR	SRC	8BD07370
03C8 0 4804	BSC	1 5	IS DO DEADY		8BD07380
03C9 0 701D	MDX	B SPO6	IS DR READY NO		8BD07390
03CA 0 1802	SRA	2	.10		8BD07400
03CB 00 4C0403CE		L BSP02,E	IS DR AT LD PT		8BD07410
03CD 0 7002	MDX	BSP03	NO NO		8BD07420 8BD07430
03CE 00 4C8003C4	BSP02 BSC	I BSP	EXIT	SRC	8BD07440
0300 00 0500000	*			2	8BD07450
03D0 00 C50001B8	BSPO3 LD	L1 1APEO	GET AREA CODE		8BD07460

0302	0	F021		EOR		BSPIO	SET BSP FNC		00000100
0303	0	D021		STO		BSPIO+1	SAVE		8BD07470
			*				3446		8BD07480 8BD07490
03D4	0	081F		XIO		BSPIO	ISSUE BACKSPACE		88D07500
4305	_		*						8BD07510
0305	0	3009	WAIT9	MAIT		9	WAIT FOR INTRPT		8BD07520
0307	~~	6400000	*						8BD07530
0308		C400023A		LD	L	DSW	GET SENSE WD		8BD07540
03D9		4804 7001		BSC		E	IS DR READY		8BD07550
03D4	_	70F3		MDX		BSP04	NO		8BD07560
UJUA	U	1013	*	MDX		BSP02	YES-EXIT		8BD07570
						5611.4			8BD07580
03 DB	00	C400023A	BSP 04	1.0			RONG AFTER BSP		8BD0 7590
		04000438	03/04	STO	L	DSW	GET SENSE WD		8BD07600
		4400043A		BSI	Ĺ	SNSV PRINT	SAVE PRINT WRONG DSW		8BD07610
03E1		E006		DC	-	/E006	ERROR 6		8BD07620
03E2	0	0003		DC		/9003	FORM-3		8BD07630
03E3	0	7001		MDX		BSP05	CONTINUE		8BD07640
03E4		70EB		MDX		BSP03	LOOP ON ERROR		8BD07650
03E5	00	4C0002F8	B SP 05	BSC	L	WRT05	TERMINATE		8BD07660 8BD07670
			*						8BD07680
			*			DRIVE	NOT READY		88D07690
0357	•		*						8BD07700
		C400023A	B SP 06		L	DSW	GET SENSE WD		8BD07710
		D4000438		STO	L	SNSV	SAVE		8BD07720
03ED		4400043A E007		BSI	L	PRINT	PRINT-NOT READY	SRC	8BD07730
03EE		0003		DC		/E007	ERROR 7		8BD07740
03EF	-	7001		DC MDx		/0003	FORM 3		8BD07750
	ŏ	70D4		MDX		BSP07	CONTINUE		8BD07760
03F1		4C0002F8	B SP 07		L	BSP01	LOOP ON ERROR		8BD07770
			*	030	L	WRT05	TERMINATE		88D07780
			*			CONST	AMTC		88D07790
			*			CONST	ANI S		8BD07800
03F4		0000		BSS	E	0			8BD07810
03F4	0	0403	BSPID		-	/0403	BACKSPACE IDCC		8BD07820
03F 5	0	0000		DC		0			88D07830
			*XXXXX	XXXXX	(XX)	CXXXXX CXXXX	××××××××××××××××××××××	,	8BD07840 8BD07850
			*						88D07860
			*			REWIN	D ROUTINE		8BD07870
			*						88007880
03F6	^	0000	*XX XX	XXXXX)	(XX)	(XXXXXXXXXXXX	××××××××××××××××××××××××××××××××××××××		8BD07890
		0000 4400041E	RWD	DC		0		SE	8BD07900
03F9		1801	RWD 01		L	SNDSW	SENSE DR	SRC	88007910
03FA	-	4804		SRA		1			8BD07920
03FB	-	7014		B SC MD X		E RWD04	IS DR READY		88D07930
03FC		1802		SRA		2	NO		8BD07940
03FD		4804		BSC		E	IS DR AT LD PT		8BD07950
03FE		700F		MDX		RWD03	YES AT LU PT		8BD07960
03FF	00	C 50001B8		LD	L1	TAPEO	GET AREA CODE		8BD07970
0401	0	F01A		EOR		RWDIO	SET FNC		8BD07980
0402	0	DOIA		STO		RWDIO+1	SAVE		8BDØ7990
	_		*			_			8BD08000 8BD08010
0403	0	0818		XIO		RWDIO	ISSUE REWIND		8BD08020
	_		*						8BD08030
0404	0	300A	WAITA	DC		/300A	WAIT FOR INTRPT		8BD08040
04.05	^^		*						88D08050
		4400041E	3 MD 02		L	SNDSW	SENSE DR	SRC	8BD08060
0407 0408		1801		SRA		1		-	8BD08070
0408		4804 70FB		BSC		E	IS REWIND COMPLETE		8BD08080
0404 040A		1802		MDX		RWD02	NO		8BD08090
040B		4804		SRA BSC		2	TC DD 45 45		8BD08100
040C		7001		MDX		E HUU3	IS DR AT LD PT		88008110
040D		70F7		MDX		RWD03 RWD02	YES		8BD08120
		•	*				NO		8BD08130
									8BD08140

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

040E (00 4C8003F6	RWDO	3 BS	c i	RWD	EXIT	SX	88D08150	
		*					3,	88D08160	
		*			DR I V	E IS NOT READY		8BD08170	
0410	00 C400023A)4 LD	L	DCU			88D08180	
0412 (00 D4000438	1400	STI		DSW SNSV	GET SENSE WD		8BD08190	
0414 (00 4400043A		BS	_	PRINT	SAVE		8BD08200	
0416 (DC	_	/E008	PRINT-NOT READY ERROR 8	SRC	8BD08210	
0417			DC		/0003	FORM 3		8BD08220	
0418 (MD	(RWD05	CONTINUE		8BD08230	
0419			MD)	(RWD01	LOOP ON ERROR		8BD08240	
041A 0	0 4C0002F8		5 B S C	; L	WRT05	TERMINATE		8BD08250 8BD08260	
		*						8BD08270	
		*			CONS	TANTS		8BD08280	
041C	0000	•	0.0		_			8BD08290	
041C 0		RWDI	BSS	5 E	0			8BD08300	
041D 0		KMOI	DC		/0404 0	REWIND IDCC		8BD08310	
		* X X X		YYY		******		8BD08320	
		*	~~~~			*******	KXXX	8BD08330	
		*			ROUT	INE TO SENSE DRIVE		8BD08340	
		*				THE TO SENSE DKINE		8BD08350	
		*XXX	XXXXX	XXXX	XXXXXXXXXXX	********	/ V V V	8BD08360	
041E 0		SNDS	W DC		0		SE	8BD08370	
041F 0			STX	3	SNDS3+1	SAVE IX 3	3 €	88D08380 8BD08390	
0420 0	0 C40001C6 0 F50001CD	SNDS		L	EDIT	GET AREA CODE		8BD08400	
0424 0			EOR		MOD	SET MODIFIER		8BD08410	
0425 0	D011		EOR		SNS	SET SENSE FNC		8BD08420	
	0 67000002		STO		SN3+1	SAVE		8BD08430	
0428 0	080D	SNDS	S XIO	L3	SNS			8BD08440	
0429 0	0 D7000437	3,4532	STO	12	SNSV-1	ISSUE SENSE		8BD08450	
042B 0	73FF		MDX		-1	SAVE DECR IX		8BD08460	
042C 0	70FB		MDX	•	SNDS2	LOOP		8BD08470	
042D 0	COOA		LD		SNSV	GET SECOND		8BD08480	
042E 0	FOOA		EOR		SNSV+1	COMPARE WITH FIRST		8BD08490	
042F 0	4820		BSC		Z	IS DR FULLY SEL		8BD08500	
0430 0	70EF		MDX		SNDS1	NO		88D08510 8BD08520	
0431 0	C006 0 67000000	6	LD		SNSV	GET SENSE WD		8BD08530	
0432 00	4C80041E	SND S3		L3		RESTORE IX 3		8BD08540	
0.134 00	7 40000416	*	BSC	I	SNDSW	EXIT	SX	8BD08550	
		*			CONCE	44.7.5		88D08560	
		*			CONST	ANTS		88008570	
0436	0000		BSS	E	0			88008580	
0436 0	0700	SNS	DC		/0700	SENSE IOCC		88008590	
0437 0	0000		DC		0	SENSE TOCC		8BD08600	
0438 0	0000	SNSV	DC		0	TEMP STORAGE		8BD08610	
0439 0	0000		DC		0			8BD08620	
		* X X X X	XXXXX	(XXX)	XXXXXXXXXX	*****	XXX	88D08630 8BD08640	
		•						8BD08650	
		*			COMMO	N PRINT ROUTINE		8BD08660	
		****						8BD08670	
043A 0	0000	PRINT	7 7 7 7 X	* * * *	.xxxxxxxxxx	********	KXX	8BD08680	
	6E0004E1	FREINT	STX	12	0 FRMC8+1	CAUS IN A	SE	8BD08690	
0430 00	6D0004DF		STX		FRMC7+1	SAVE IX 2		88008700	
043F 00	00000102		XIO		RHC / TI	SAVE IX 1		8BD08710	
0441 00	C40001CB		LD		SWO	READ DATA SWS GET DATA SWS		8BD08720	
0443 0	1802		SRA		2	OLI DATA SMS		8BD08730	
	4C0404CE		BSC		FRMC4,E	BRANCH = BYPASS PR		8BD08740	
0446 0	1010		SLA		16	CLEAR MSG WDS		8BD08750	
	D40004F5		S T O	L	MSG2			8BD08760 8BD08770	
	D40004F6		STO	L	MSG3			89D08780	
	D40004F4 D40004F8		STO		4SG1			8BD08790	
	D40004F8		STO		MSG			8BD08800	
	668004F1		STO		4SG4			8BD08810	
	2000041-1		LDX	12	KID	IX 2 = RTN NO		8BD08820	
DATE	01MAY66	041016	.6						
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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

0453 00 C60001D3		LD		2 CMRTT	CET DIN 1000	
0455 00 D40004F2		STO			GET RTN ADRS	8BD08830
0457 00 6680043A		LDX	_	2 PRINT	SAVE IX 2 = ADRS OF CALL	8BD08840
0459 0 C200		LD	-	2 0	GET MSG ID	8BD08850
045A 00 D40004F0		STO		MID	SAVE	8BD08860
045C 0 C201		LD		2 1	GET FORM NO	88008870
045D 0 D003		STO		PR1+1	oci i divi no	88D08880
045E 00 6D0004F3		STX	L	1 UNIT	SAVE DR NO	8BD08890
0460 00 66000000	PR1	LΓX		2 0	IX 2 = FORM NO	8BD08900 8BD08910
0462 00 C6000487		LD	L	2 FRWC	GET 1443 WD CT	8BD08920
0464 00 D4000616		STO	L		SET	8BD08930
0466 00 94000684 0468 00 D40004AE		S	L	ONE	SUB 1	8BD08940
046A 00 5600048C		STO	L	STWC+1	SAVE	8BD08950
046C 00 D40004B0		LD		2 FRST	GET MSG WD CT	8BD08960
046E 0 C010		STO	L	STWC+3	SAVE	8BD08970
046F 0 D042		LD Sto		LOGXO	RESTORE RTN	88008980
0470 0 COFO		LD		FRMC2+1		8BD08990
0471 0 4810		BSC		PR1+1	GET FORM NO	88D09000
0472 0 700A		MDX		PRO5	IS IT NOT LINE O	8BD09010
0473 0 1001		SLA		1	NO	8BD09020
0474 0 1801		SRA		1	CLEAR BIT O	8BD09030
0475 0 D001		STO		PR04+1	SAVE	8BD09040
0476 00 66000000	PR04	LDX	12	2 0		8BD09050
0478 0 COO8		LD		LOGX2	IX 2 = FORM NO	8BD09060
0479 00 D40004B0		STO	L	STWC+3	SET FOR NOT LINE O	8BD09070
047B 0 C004		LD	_	LOGXI		8BD09080
047C 0 D035		STO		FRMC2+1		8BD09090
047D 00 4E800482	PR05	BSC	12	FORM	GO TO FORM	8BD09100
047F 0 04EE	LDG XO			PID-1	LINE O CONSTANT	88D09110
0480 0 04F2 0481 0 0005	LOG X1			UNIT-1	NOT LINE O CONSTANT	8BD09120
0481 0 0005	LOGX2	DC		5	NOT LINE O WD CT	8BD09130 8BD09140
	*					8BD09150
	*			FORM	ADDRESSES	8BD09160
0482 0 0000	FOR M	20		_		8BD09170
0483 0 0491	FURM	DC		0		8BD09180
0484 0 049E		DC		FORMI	,	8BD09190
0485 0 049F		DC DC		FORM2		8BD09200
0486 0 04A3		DC		FORM3		8BD09210
0487 0 0000	FRWC	DC		FORM4 O		8BD09220
0488 0 001A		DC		26	HD CT FORM	8BD09230
0489 0 000E		DC		14	WD CT FORM 1	8BD09240
048A 0 0011		DC		17	2	8BD09250
0488 0 0011		DC		17	3	8BD09260
048C 0 0000	FRST	DC		0	4	8BD09270
048D 0 0009		DC		9	MSG LNGTH FORM 1	8BD09280
048E 0 0005		DC		5	_	8BD09290
048F 0 0006		DC		6	2 3	8BD09300
0490 0 0006		DC		6	4	88D09310
	*				•	88D09320
0491 00 04000455	*					8BD09330
0491 00 C40006E2 0493 0 D060	FOR M1		L	PRPAT	GET EXPECTED DATA	88D09340 88D09350
0493 0 D060 0494 00 C7000941		STO		MSG1	SAVE	8BD09360
0496 0 D05E		LD	L3	I DAA+8	GET DATA RECEIVED	8BD09370
0497 00 C4000685		STO	_	MSG2	SAVE	8BD09380
0499 0 DOSC			L	WDCT	GET WD NO IN ERROR	8BD09390
049A 00 C4000686		STO		MSG3	SAVE	8BD09400
049C 00 D40004F7			L	MSG4T	GET TRK IN ERROR	8BD09410
049E 0 7007	FORM2		L	MSG4	SET	88D09420
	FUKMZ	MUX		FORMC	GO TO COMMON RTN	8BD09430
	*					8BD09440
049F 00 C4000438	FORM3	וח	L	CMCV	057	88D09450
04A1 0 D052		STO	_	SNSV	GET SENSE WORD	88009460
04A2 0 7003		MDX		MSG1 FORMC	SAVE	8BD09470
	*			IURML	GO TO COMMON RTN	8BD09480
	*					8BD09490
						8BD09500

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

01MAY66 04NDV66 415120A 415233

DATE EC NO.

	0 C4000328	FDR M4	LD	L	WRERR	GET NO OF RETRYS		8BD09510
04A5 O	D04E		STO		MSG1	SAVE		8BD09520
		*						8BD09530
		•			COMM	ION ROUTINE		8BD09540
0/4/ 0	•	*						8BD09550
	0 6600001A	FORMO		L2	26	IX 2 = LNGTH MSG		8BD09560
04A8 0	1010		SLA		16			8BD09570
OAAB O	D D60004F8 72FF	FRMC1			MSGO-1	CLEAR MSG AREA		8BD09580
O4AC O	72FF 70FC		MDX	2	-1			8BD09590
0440	TOPE	•	MDX		FRMC1			8BD09600
OSAD O	0 65000000	STWC	LDX					88D09610
	0 66000000	31#6	LDX	L1 L2	-	SET IXING		88D0 9 620
	0 C60004EE	FRMC2			PID-1	CET 4 11000		8BD09630
	D D40005D6	* K-102	STO	L	HEXMD	GET A WORD		8BD09640
	44000584		851	Ĺ	HEXCV	SET IN CONV RTN CONVERT TO HEX	5.06	8BD09650
	O CC0005DC		LDD	Ĺ	HEXCD	GET CONVERTED WD	SRC	8BD09660
04B9 00	D D50004F8		STO		MSGO-1	SET IN MSG		88D09670
04BB 0	1800		RTE		16	MOVE O TO A		8BD09680
04BC 00	D50004F9		STO	11	MSGO	SET IN MSG		8BD09690
04BE 0	71FD		MDX		-3	DECR IX 1		8BD09700
O4BF O	1000		NOP	_	_	DEGR IX I		8BD09710
04C0 0	72FF		MDX	2	-1	DECR IX 2		8BD09720
04C1 0	70EF		MDX		FRMC2	LOOP		88D09730 8BD09740
		•						8BD09750
	OC0001C2		XIO	L	RDBSW	READ DATA SWS		8BD09760
	C40001CB		LD	L	SWO	GET SWS		8BD09770
04C6 0	1009		SLA		9			8BD09780
04C7 0	4828		BSC		+ Z	IS 1443 TO BE USED		8BD09790
04C8 0	7003		MDX		FRMC3	YES		8BD09800
	44000514		BSI	L	LOGC	GO TO TYPEWRITER	SRC	8BD09810
04CB 0	7002		MDX		FRMC4			8BD09820
	440005EE	FRMC3		L	PR 43	GO TO 1443	SRC	8BD09830
	0C0001C2	FRMC4		L	RDBSW	READ DATA SWS		8BD09840
	C40001CB		LD	L	SWO	GET SWS		88009850
04D2 0	1801		SRA		1			8BD09860
04D3 0 04D4 0	4804		BSC		E	IS HALT ON ERROR ON		8BD09870
0404 0	700F		MDX		FRMC6	YES		8BD09880
0405.00	0C0001C2	E DM65	w					8BD09890
	C40001CB	FR4C5		L	RDBSW	READ DATA SWS		8BD 09900
0409 0	1803		LD.	L	SWO	GET SWS		8BD09910
04DA 0	4804		SRA		3	*C + 000 000 000 000		8BD0 992 0
04DB 0	700F		BSC MDX		E	IS LOOP ON ERROR ON		8BD 09930
	7402043A		MDX	L	FRMC9	YES		8BD09940
	65000000	FRMC7		Ĺı	PRINT,2	SET RETURN TO CONT		8BD09950
	66000000	FRMC8		L2	0	RESTORE IX 1		8BD09960
	4C80043A	140	BSC	I	PRINT	RESTORE IX 2	c	8BD09970
		*	- 30	•		EXIT	SX	88D09980
					HALT	ON ERROR SW IS ON		8BD09990
		*			· inc i	24 FUUDU 2M 12 OM		8BD10000
04E4 0	COOB	FRMC6	LD		MID	GET MSG ID		88D10010
04E5 0	180C		SRA		12	OC: 1130 10		8BD10020
04E6 0	F007		EOR		ERRR			8BD10030
04E7 0	4820		BSC		Z	IS THIS AN ERROR		8BD1 0040 8BD1 0050
04E8 0	70EC		MDX		FRMC5	NO		8BD10050
04E9 0	300B	WAITB			/300B	ERROR WAIT		86D10080
04EA 0	70EA		MDX		FRMC5	··-··		8BD10070
		*						8BD10090
		*			LOOP	ON ERROR SW IS ON		8BD10090
	_	*						8BD10110
	7403043A	FRMC9		L	PRINT,3	SET RETURN TO LOOP		8BD10120
04ED 0	70F0		MDX		FRMC7	, , , , , , , , , , , , , , , , , , ,		8BD10130
		*						8BD10140
		*			CONST	TANTS		8BD10150
0/55 5		*						8BD10160
04EE 0	000E	ERRR	DC		/000E	ERROR CK		8BD10170
04EF 0	BD00	PID	DC		/BD00	PROGRAM ID		8BD10180

04F0 0 0000	MID DC	0	MECCACE ID	
04F1 0 0000	RID DC	0	MESSAGE ID ROUTINE NUMBER	8BD10190
04F2 0 0000	RAD DC	Ö	ROUTINE NUMBER	8BD10200
04F3 0 0000	UNIT DC	Ö	UNIT NUMBER	8BD10210 8BD10220
04F4 0 0000	MSG1 DC	Ö	MODIFIER1	8BD10230
04F5 0 0000	MSG2 DC	0	2	8BD10240
04F6 0 0000	MSG3 DC	0	3	8BD10250
04F7 0 0000	MSG4 DC	0	4	8BD10260
	•			8BD10270
	*	0.170		8BD10280
	·	UUTP	PUT MSG AREA	8BD10290
04F8 0 0000	MSG DC	0	UD CT OD CAD DET	8BD10300
04F9 0 0000	MSGO DC	Ö	WD CT OR CAR RET OUTPUT MSG AREA	8BD10310
04FA 0019	BSS	25	OUTFOI HIS AREA	8BD10320 8BD10330
0513 0 FFFF	TERM DC	/FFFF	TERMINATOR	8BD10340
	*XXXXXXXX	(xxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXX	8BD10350
	•			8BD10360
	*		INE TO CONVERT PRINTER	8BD10370
	*	PACK	ED CODE TO PACKED TYPE	8BD10380
	******	,		8BD10390
0514 0 0000	LOGC DC	XXXX XXX XXX XX 0	********	8BD10400
0515 0 1010	SLA	16	SE	8BD10410
0516 0 D039	STO	LOXOO	CLEAR HALF WD SW	8BD10420
0517 0 CO6B	LD	PRSP	SET CARRIAGE RETURN	88D10430 8BD10440
0518 00 D40004F	STO	L MSG	TO THE METORY	88D10450
051A 0 692E	STX	1 LDGC7+1	SAVE IX 1	8BD10460
051B 0 6A2F	STX	2 LOGC8+1	SAVE IX 2	8BD10470
051C 0 6B30	STX	3 LOGC9+1	SAVE IX 3	8BD10480
051D 00 670004F9	LDSC1 LDX	L3 MSGO	IX 3 = ADRS OF MSG	8BD10490
0520 0 D030	STO	3 0 LOXO2	GET WD TO CONVERT	88010500
0521 00 F4000513		L TERM	SAVE	8BD10510
0523 0 4818	BSC	+-	IS IT A TERM	88D10520 8BD10530
0524 0 7021	MDX	LOGCO	YES	8BD10540
0525 0 CO2B	LOGC2 LD	LOX02	GET WD	88D10550
0526 0 180C	SRA	12	SAVE ZONE	8BD10560
0527 0 D001	STO	LOGC3+1		8BD10570
0528 00 65000000 0528 00 C500055		Ll O	IX 1 = ZONE	8BD10580
052C 0 D007	S LD STO	L1 LOXO4	GET ADRS OF ZONE	8BD1 0590
052D 0 C023	LD	L0GC5+1 L0X02	SAVE	8BD10600
052E 0 1004	SLA	4	GET WD TO CONVERT SAVE POSITION	8BD10610
052F 0 180C	SRA	12	3AVE 7 0311 10W	8BD10620 8BD10630
0530 0 D001	STO	LOGC4+1		8BD10640
0531 00 66000000		L2 0	IX 2 = POSITION	8BD10650
0533 00 C6000000		L2 0	GET TYPEWRITER CODE	8BD10660
0535 00 74000550 0537 0 7007		F F0X00 *0	IS THIS FIRST HALF	8BD10670
0538 0 D019	MDX STO	L0GC6	NO	8BD10680
0539 00 74010550		LOX03 L LOX00.1	YES	8BD10690
0538 0 CO15	LD	LOX02	SET TO SECOND HALF GET WD TO CONVERT	8BD10700
053C 0 1008	SLA	8	SET TO SECOND HALF	8BD10710 8BD10720
053D 0 D013	STO	LOX02	SAVE	8BD10730
053E 0 70E6	MDX	LOGC2	GO CONVERT	8BD10740
				8BD10750
	*	SECO	ND HALF WORD	8BD10760
053F 0 1808	# 10004 SDA	0	MOUE TO SECUE	8BD10770
0540 0 F011	LDGC6 SPA EOR	8	MOVE TO SECOND HALF	8BD10780
0541 0 D300	LOGCB STO	LOX03 3 0	COMBINE WITH FIRST SET IN MSG	8BD10790
0542 0 1010	SLA	16	SEL IN MSG	8BD10800
0543 0 DOOC	STO	FOXOO	SET TO FIRST HALF	8BD10810
0544 0 7301	MDX	3 1	IX 3 = NEXT WD	8BD10820 8BD10830
0545 0 7009	MDX	LOGC 1	CONVERT NEXT WD	8BD1 0840
	*			8BD10850
	*	FOUN	D A TERMINATOR	3BD10860

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST ...

			* 5							
0546	00	4C000584	* Lose	ó 18 ŚC	Ł	L OGO	•	GO PROINT		88D10870
		65000000		# LOX	ŭı		,	=		8801 088 0
		66000000		B' L'DX	L2			RESTORE IX 1 RESTORE IX 2		8BD1-0890,
			7.3	9 LOX	Ľ3					88D10900
		4C800514	2000	B SC "	1	LOGC		RESTORESEX 3		88D1:09:10
_			* ×	0 30	•	LUGE		CVII	SX	8BD10920.
							CONST	LNTO		8BD10930
			*				CUNSIA	4413		8BD10940
0550	0	0000	LOXO	A COURT		0		HALE-MORD CH		8BD10950
0551		0000	LOXO			Ö		HALFANORD SW		88D1 0960
	-		*			U		TEMP' STORAGE FOR		8BD10970
0552	0	0000	LOXO	i nr		0		WORDATO CONVERT - TEMP. STORAGE FOR:		88D10980
			*	, ,,		U		TYPEWRITER CODE		8BD10990
0553	0	0559	LOXO	For		PR00		ADRS DE ZONE O		8BD11000
0554		0562	20.0	DC		PR01-	- 2	ADRS OF ZONE 1		8BD11010
0555	0	056D		DC		PROZ	L	ADRS OF ZONE 2		8BD11020
0556	0	0579		DC		PR03~	-1	ADRS OF ZONE 3		8BD11030
			* '				•	ADNO DE ZONEC 3		8BD11040
			* ~							88011050
			* "							88D11060
0557	0	CO2B	LOGCA	LD		PR SP		GET CARRIAGE RETURN		88011070
0558	0	70E8		MDX		LOGCE	t	OCI CHRISTOF REIGHT		88011080
			* 5				•			8BD11090
			* "				PRIMITE	R CODE TO TYPEWRITER		88D11100
			*				CODE	ONVERSION TABLE	-	8BD11110
			* *					CHILLION TABLE.		88011120 88011130
0559	0	2100	PROO	DC		/21/00	:	BLANK		8801.1140
055A	0	FC00		DC'		/FC00) ×	1		88D1-1-1-50
055B		D800		DC '		/D800	r	2		88D11160
055C	-	DCOO		DC		/DC@@		3 ~		88011170
055D	_	F000		DC		/F000	y	4		8BD:1.1180
055E	-	F400		DC		/F400		5		8BD11190
055F	-	D000		DC		/D000	_	6 .		8BD1.1200
0560 0561	-	D400		DC		/D400		7		88011210
0562	-	E400 E000		DC		/E400		8		88011220
0563	-	C400		DC		/E000		9		8BD11230
0564	-	9A00	PRO1	DC -		/C400		0		8BD11240
0565		9E00	FRUI	DC		/9A00		\$		8BD11250
0566		B200		DC		/9E00 /B200		T U		8BD1 1260
0567		B600 ;		DC		/B600		V		8BD11270
0568	0	9200		DC		/9200		W -		88011280
0569	0	9600 😭		DC [°]		/9600		X		88011290
056A	0	A600		DC-		/A600		Ŷ,		8BD11300
056B	0	A200.		DC∽		/A200		7		8BD11310 8BD11320
056C	0	2100		DC '		/2100		BLANK		8BD14330
056 D	0	BEOO!	PR02	DC '		/BE00		-		8BD11340
056E	0	7E00		DC		/7E00		J		88011350
056F	0	5A00 ``		DC ''		/5A00		K *		8BD11360
0570		5E00 2		DC.		/5E00	*	L 🗸		8BQ1.1370
0571	0	7200		DC.		/7200		M ~		88011380
0572	0	7600 ¹		DC		/7600		N **		8B01/1390
0573	0	5 200		DC)		/5/200	1	O 3		8801-1400
0574	U	2000		DC,		/5600		P		88011410
0575	•	6600		DC :		/6600		Q		88011420
0576 (0577 (0	6200 4200		OÇ.,		/6200	(R ²⁹		8BD1/1430
0578		4000 4000		DC		/4200				88011440
0579		4000 D600		DC)		/4000		\$ \$		88011450
057A		3E00	PRT3	DC,		/D600		* *		88011460
057B		1 A Q Q	- KJ3	DÇ, DÇ		/3E00		A 4		98011470 .,
057C	õ	1 E Q Q C		DC.		/1400°		3		98011480
057D (0	3 Z 0 0 °		DC		/1E00 /3200		C .		P30,11490
057E		3600		DC		/3600		E .		85011500
057F		1200		DC.		/1200		5 F		8801.151.0
0580		1 600°		DC		/1600		; ;		68011520
0581		2600		DC		/2600				95014530
								•		88D1 1540

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

0582 0 2200 /2200 8BD11550 0583 0 8121 PRSP DC /8121 CARRIAGE RETURN 8BD11560 8BD11570 8BD11580 TYPEWRITER ROUTINE 8BD11590 8BD11600 8BD11610 0584 0 082B LOGOG-XIO SENSE SENSE FOR READY 8BD11620 0585 0 180A SRA 10 8BD11630 0586 0 4804 BSC IS TYPEWRITER READY 8BD1 [640 8BD11650 0587 0 300C WAITC DC /3000 NOT READY 8BD11660 0588 00 0C00060C X I O L MASKO 8BD11670 8BD11660 MASK ALL LVLS 058A 00 0C09060E XIO L MASK1 058C 0 1010 SLA 16 8BD11690 058D 0 D025 STO WRDSW CLEAR HALF WD SW 88D11700° 058E 0 6300 LDX 88011710 8BD117207 058F 00 C70004F8 LOGO1 LD L3 MSG 8BD11730 8BD11740 8BD11750 GET PRINT WD 0591 0 0020 STO IDARA SET IN DUTPUT AREA 0592 00 F4000513 EOR L TERM CK FOR TERMINATOR 8BD11760 0594 00 4C1805A8 BSC L LOG02,+-EXIT 8BD11770 8BD11780 8BD11350 8BD11800 8BD11810 8BD11820 8BD11830 OUTPUT A CHARACTER 0596 0 0817 XIOWR XIO WRITE WRITE CHARACTER 0597 0 0818 XIDSN XID SENSE CHECK BUSY 88011840 88011850 0598 0 180B SRA 11 0599 0 4804 BSC IS TYPEWRITER BUSY 8BD11860 059A 0 70FC XIOSN MDX BUSY 8BD11870 88D1 1880 8BD11890 CHECK FOR 1ST 1/2 WORD 8BD11900 88011910 059B 0 C017 LD WRDSW GET 1/2 WORD SWITCH 8BD1 1920 059℃ 0 4804 BSC 8BD11930 059D 0 7006 MDX LOGO3 GO SETUP FOR NEXT PD 88011940 88011950 88011960 88011970 SET UP FOR 2ND 1/2 WORD 8BD11980 059E 0 C013 LD IDARA GET WORD IN ID AREA 8BD11990 059F 0 1008 SLA POSITION 2ND 1/2 WD 8BD12000 05A0 0 D011 STO IOARA 8BD12010 05A1 00 74010583 MDX L WRDSW-1 BUMP WORD SWITCH 88012020 05A3 0 70F2 MDX XIOWR GD. WRITE SND 1/2 WD 8BD12030 8BD12040 SET UP FOR NEXT WORD 8BD12050 8BD12060 05A4 0 7301 LOG 03 MDX 3 1 NEXT WORD INDEX 8BD12010 05A5 00 740105B3 MDX L WRDSW.1 BUMP WORD SW 05A7 0 70E7 MD'X L0601 GO GET NEXT HORD 8BD12090 8BD12100 8BD12110 05A8 00 0C000610 LOGO2 XIO L UNMK3 UNMASK ALL LVLS 88012120 05AA 00 0C000612 X I/O L UNMK4 8BD12130 05AC 00 4C000548 BSC L LOGCT EXIT 88012140 88012150 SX CONSTANTS 8BD12160 8801,217,0 05 A E 0000 BSS E O 8BD12180 05AE 0 0582 WRITE DC I DARA WRITE IOCC 8BD12190 05AF 0 0902 DC. /0902 89D12200 0580 0 0000 SENSE DC /0000 SENSE IOCC 8BD12210 05B1 0 0F03 OG? /0F03

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0582	0	0000	IDARA	חר		0	CHERIAT AGE		
05B3		0000	WRD SH			0	OUTPUT AREA HALF WORD SW		8BD12230
					(XX		XXXXXXXXXXXXXXXXXXXXXXXXX		8BD12240
			*						8BD12250
			*			HEXAD	ECIMAL CONVERSION		8BD12260 8BD12270
			*						8BD12280
05B4	^	0000	*XXXX	XXXXXX	(XX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX		8BD12290
		0000 6E0005D1	HEXCV			0		SE	8BD12300
0587	00	6F0005D3		STX STX		HEXC2+1	SAVE IX 2		8BD12310
0589		6204		LDX		HEXC3+1 4	SAVE IX 3		8BD12320
05BA		CO1B		LD	2	HE XWD	CONVERSION INDEX		8BD12330
05BB	0	1890		SRT		16	GET WORD TO CONVERT SET IN O		8BD12340
05BC		1010		SLA		16	CLEAR A		8BD12350 8BD12360
05 B D	-	1084	HEXC1			4	GET CHARACTER		8BD12370
05 B E		D001		STO		HEXC1+3			8BD12380
UDBF	UU	67000000		LDX	L3	0	SET CODE TABLE INDEX		8BD12390
05(1	۸۸	C70005DE	*						8BD12400
05C3	00	D60005D6		LD Sto		CODEH	GET CHARACTER		8BD12410
05C5		1010		SLA	LZ	HEX00-1 16	SAVE		8BD12420
			*	JLA		10			8BD12430
05C6	0	72FF		MDX	2	-1	CHECK IF DONE		8BD12440
05C7	0	70F5		MDX		HEXC1	CHECK II DUNE		8BD12450 8BD12460
	_		*						8BD12470
0508		C011		LD		HEX00+3	PACK CODED WORDS		8BD12480
05C9 (1008		SLA		8			8BD12490
05CB		E 80E D010		OR		HEX00+2			8BD12500
05CC (COOB		STO		HEXCD			8BD12510
05CD (_	1008		LD Sla		HEX00+1 8			8BD12520
05CE (E808		OR		HEXOO			8BD12530
05CF (DOOD		STO		HEXCD+1			8BD12540
		66000000	HEXC2	LDX	L2	-	RESTORE IX 2		8BD12550 8BD12560
		67000000	HEXC3	LDX	L3	0	RESTORE IX 3		8BD12570
0504 (00	4C8005B4		BSC	I	HEXCV	0.55.404		8BD12580
			*						8BD12590
			*				CONSTANTS		8BD12600
0506	n	0000	HEXWD	DC		•			8BD12610
0507		0000	HEX OO	-		0	WORD TO CONVERT		8BD12620
05 D8 (0000		DC		0	* UNPACKED CODED		8BD12630
05D9 (0	0000		DC		ŏ	* WORD		8BD12640
05 DA (0	0000		DC		0	*		8BD12650 8BD12660
			*						8BD12670
05 DC		0000		BSS	E	0			8BD12680
05DC (`	0000	*	20		_			BBD12690
05DD (0000	HEXCD	DC		0	* PACKED CODED WORD		8BD1 2700
0,00	,	0000	*	DC		0	*		8BD12710
			*			CONVER	SION TABLE		BBD12720
			*			CONVER	SION TABLE		86D12730
05DE 0	-		CODEH	DC		/000A	0		BBD12740
05DF 0		0001		DC		/0001	1		8BD12750
05E0 0		0002		DC		/0002	2		BBD12770
05E1 0		0003		DC		/0003	3		BBD12780
05E3 0		0004 0005		DC		/0004	4		BBD12790
05E4 0		0006		DC DC		/0005 /0006	5		3BD12800
USES U		0007		DC		· . · · · -	6 7		3BD12810
05E6 0		0008		DC			8		3BD12820
05E7 0		0009		DC			9		3BD12830 3BD12840
05E8 0		0031		DC			Á		BBD12850
05E9 0		0032		DC		/0032	В		BD12860
05 EA 0		0033		DC			С		BD12870
05EB 0 05EC 0		0034		DC			D		8912880
05ED 0)035)036		DC			E	ε	BD12890
-).LU U	•	,,,,,	1	DC		/0036	F	ε	BD12900

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

		* *XXXX	xxxx	X X X	******		8BD12910
		*				~^^^^^	8BD12920
		*			PRI	NT ON 1443 PRINTER	8BD12930
		*				TO THE PRINTER	8BD12940
		* X X X X	XXXX	XXX	******	(XXXXXXXXXXXXXXXXXXXXXX	88D12950 8BD12960
05EE 0	0000	PR43	DC		0	SE	8BD12970
05EF 0	COIA		LD		SNSPR	GET SENSE TOCC	8BD12980
05F0 0	DOIA		STO		SNSPR+1	SET	8BD12990
05F1 0	C024		LD		PRWDC		8BD13000
	D40004F8		STO	L	MSG	SET WD CT	8BD13010
05F4 0	0817		XIO		MASKO	MASK ALL LEVFLS	8BD13020
05F5 0	0818		XIO		MASK1		8BD13030
0554 0	0010	*					8BD13040
05F6 0 05F7 0	0813		XIO		SNSPR	CK FOR PRINTER READY	8BD13050
05F8 0	4804		BSC		E		8BD13060
05F9 0	300D	WAITD			/300D	PRINTER IS NOT READY	8BD13070
0519 0	081A	*	XIO		WRPR	WRITE	8BD13080
OSFA O	080F	•	~				8BD13090
05FB 0	1002	PR431			SNSPR	WAIT FOR NOT COMPLTE	8BD13100
05FC 0	4810		SLA		2		8BD13110
05FD 0	70FC		B S C MD X		-	IS PRINTER COMPLETE	88913120
03.00			MUX		PR431	NO	8BD13130
05FE 0	COOC	•	LD		SNSPR+1	057 1000	8BD13140
	F4000684		EOR	L	ONE	GET IOCC	88013150
0601 0	D009		STO	٠.	SNSPR+1	SET BIT 15	8BD13160
		*	310		SMSPK+I	SAVE	8BD13170
0602 0	0807	PR432	X I O		SNSPR	CENCE	8BD13180
0603 0	1801		SRA		1	SENSE	8BD13190
0604 0	4804		BSC		Ė	IS PRINTER BUSY	8BD13200
0605 0	70FC		MDX		PR432	YES	8BD13210
		*				163	8BD13220
0606 0	0809		XIO		UNMK3	UNMASK ALL LEVELS	88D13230
0607 0	A080		XIO		UNMK4	OWNERS MEL LEVELS	8BD13240
		*					8BD13250
0608 00	4C8005EE		BSC	1	PR43	EXIT SX	88D13260
		*		_		2,4	88D13270
		*			CONS	TANTS	88D13280 8BD13290
		*					8BD13300
06 O A	0000		BSS	Ε	0		8BD13310
06 0 A 0	3700	SNSPR	DC		/3700	SENSE IOCC	8BD13320
06 OB O	0000		DC		0		8BD13330
		*					8BD13340
06 OC 0	FFFF	MASKO	DC		/FFFF	MASK IDCCS	8BD13350
060D 0	0480		DC		/0480		8BD13360
060E 0	FFFF	MASK1	DC		/FFFF		8BD13370
060F 0	0481		DC		/0481		88D13380
0/10 0		*					8BD13390
0610 0	0000	UN4K3			0	UNMASK IDCCS	8BD13400
0611 0	0480		DC		/0480		8BD13410
0612 0	0000	UNMK4	-		0		8BD13420
0613 0	0481		CC		/0481		8BD13430
0614 0	0/50	*					8BD13440
0615 0	04F8 3500	WRPR	DC		MSG	WRITE IDCC	8BD13450
0616 0		001100	DC		/3500		8BD13460
0018 0	0017	PRWDC			23	WORD COUNT	8BD13470
		****		XXX	****	*****	88D <u>1</u> 3480
		*			556-	LECT DOLLE	8BD13490
		*			DESE	LECT DRIVE ROUTINE	8BD13500
			***	v v v	*****	V V V V V V V V V V V V V V V V V V V	8BD13510
0617 0	0000	DSLT	DC V V V V	^ A Ā Ā	^^ X X X X X X X X X X X X X X	XXXXXXXXXXXXXXXXXXX	8BD13520
0618 0	C009		DC		0	SE SE	8BD13530
	F50001B8		LD		DSL	GET MOD	8BD13540
061B 0	D007		EOR	LI	TAPEO	SET TOCC	8BD13550
061C 0	0805		STO		DSL+1	SAVE	89D13560
061D 0	1000		XIO Nop		DSL	SENSE DRIVE	8BD13570
			1107				8BD13580

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

PART NO. 2183276

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

01MAY66 415120A

061E 0 1000 NOP 88D1359@ - _ _ _ 061F 0 0802 SENSE DEVICE XIO DSL 88D13600 0620 00 40800617 BSC I DSLT EXIT 88013610014 ... 88D13620 134 CONSTANTS 8BD13630 -88D13640 0672 0000 BSS E 0 88D136500176 0622 0 0720 DSL DC /0720 SENSE 1000 8BD1366001 306 0623 0 0000 88D13670, *** ** 8BD136800 32 1-8BD136900 ... TESTING ROUTINES I THROUGH T 8BD13700m 3 -- -8BD13710-8BD13720 0624 0 6807 CMRT STX 3 CMRT3+1 SAVE IX.3 8BD13730 0625 0 1010 SLA 16 ZERO A- REG 88D137600 ... 0626 0 D05C STO DECTR CLEAR ODD HEVEN CTR 88D13750 0627 00 6600FFF8 LDX L2 --8 IX 2 = NO WDS 88D13760 0629 00 4400028E CMRTO BSI L SP7F GO SET 1/D AREA 88013770 0628 00 67000000 CMRT3 LDX L3 0 RESTORE IX 3 8BD13780 062D 0 C055 LD OECTR GET DO'D' EVEN OTR ... TE 88D13790 062E 00 840G0684 L ONE ADD ONE 3BD13800 0630 0 D052 STO OECTR SAVE 8BD13810 0631 0 4804 IS CTR EVEN 8BD13820 0632 0 702F MDX CMRT2 NΩ 88D13830 0633 00 C7000673 LD L3 TR1-1 GET BAD TRACK CONST 8BD13840 0635 00 F6000941 CMRT1 EOR L2 TOAA+8 88D13850 0637 GO D6000941 STO L2 IDAA+8 8BD13860 0639 0 6807 STX 3 CMRTF+1" SAVE IX 3 88013870 043A 00 440002D4 BSI L WRT GO WRITE 88013880 8BD13890 063C 00 440003C4 BSI L BSP GO BACKSPACE 8BD13900 063E 00 440003C4 BSI L BSP GO BACKSPACE SRC 88013910 0640 00 67000000 CMRTF LDX L3 0 RESTORE IX 3 88D13920 0642 00 4400032C BSI L RD GO READ 88D13930 0644 00 440003C4 BSI L BSP GO BACKSPACE 88D13940 8BD13950 CHECK DATA 8BD13960 8BD13970 0646 00 C4000684 CMRT6 LD L ONE 8BD13980 0648 0 D03C WDCT SET AS WD CT 8BD1 3990 0649 00 6F000686 STX L3 MSG4T SET TRK 8BD14000 064B 0 6B0E STX 3 CMRT8+1 SAVE IX 3 8BD14010 064C 0 C03A I D LNEO SET LINE O 88D14020 064D 0 D01F STO CMRT9 88D14030 064E 0 63F8 LDX IX 3 = NO WDS 88014040 064F 00 C7000941 CMRTC LD L3 IDAA+8 GET A DATA WD 8BD14050 0651 00 F40002A3 EOR L P7F 8BD14060 0653 0 4820 BSC IS WD CORRECT 8BD14070 0654 0 7011 MDX CMRTB NO 8BD14680 0655 00 74010685 CMRTD MDX L WDCT.1 INCR WD CT 8BD14090 0657 0 7301 MDX 3 1 DECR IX 3 8BD14100 0658 0 70F6 MDX CMRTC LOOP 8BD14110 CMRT8 LDX L3 0 0659 00 b7000000 RESTORE IX 3 88D14120 8BD14130 CHECK FOR ROUTINE COMPLETE 8BD14140 8BD14150 065B 0 C027 CMRTE LD DECTR GET ODD EVEN CTR 8BD14160 065C 0 4804 BSC IS IT EVEN 8BD14170 065D 0 70CB MDX CMRTO NO 8BD14180 065E 0 7201 MDX 2 1 DECR IX 2 88014190 065F 0 70C9 MDX CMRTO CONTINUE RTN 8BD14200 0660 00 4C0001EA CMRT5 BSC L RETRN RTN EXIT 8BD14210 8BD14220 ODD EVEN CTR IS ODD 8BD14230 88014240 0662 00 C7000679 CMRT2 LD L3 TR1-1 GET BAD TR CONSTANT 8BD14250 0664 0 1008 SLA 8 MOVE TO FIRST CHAR 8BD14260

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

PART NO. 2183276 114

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

DAKE A BACE				
0665 0 70CF	MDX	CMRT1		8BD14270
	•			8BD14280
	*	DATA	NOT CORRECT	8BD14290
0666 00 C40002A3	T		* *	8BD14300
0668 00 D40006E2	CMRTB LD	L P7F	GET EXPECTED	8BD14310
066A 00 4400043A	STO		SAVE	8BD14320
066C 0 E001	BSI	L PRINT		SRC 88D143300 📜 💆
066D 0 0001	00		YFERROR 1.	88014340 T
066E 0 7001	CMRT9 DC	/0001	~ _FORM 1	8BD14350
	MDX	CMRT7	CONTINUE	8BD14360
	MDX	CMRTE	LOOP ON ERROR	8BD143†0;** ` *
	CMRT7 LD	LNE1	SET NOT LINE O	8BJ14380 ** **
	STO	CMRT9		8BD14390
0672 00 00000102	XIO	L RDBSW	READ DATA SWS "	8BD144000.
0674 00 C40001CB	LD	L SWO	GET SWS	8BD14410
0676 0 1007	SLA	7	•	8BD14420
0677 0 4810	BSC	-	IS PRINT ONLY 1 ON	8BD14430
0678 0 70DC	MDX	CMRTD	NO .	8BD14440
0679 0 70DF	MDX	CMRT8	YES	88D1445D
	*	•		8BD14460
	*	CONS	TANTS	8BD14470
	*		***	8BD14480
067A 0 0040	TR1 DC	/0040	CHARACTER-TRACK 1	88D14490
067B 0 0020	TR2 DC	/0020	2	88D14500
067C 0 0010	TR3 DC	/0010	3	8BD14510
067D 0 0008	TR4 DC	/0008	4	
067E 0 0004	TR5 DC	/0004	5	8BD14520
067F 0 0002	TR6 DC	/0002	6	8BD14530
0680 0 0001	TR7 DC	/0001	7	8BD14540
0681 0 BCOF	DSWEX DC	/BCOF	ERROR EXPECTED	88D14550
0682 0 BF9F	DSWCR DC	/BF9F	CORRECTED EXPECTED	88D14560
0683 0 0000	DECTR DC	0	ODD-EVEN CTR	88D14570
0684 0 0001	ONE DC	i	CONSTANT 1	88D1458Q
0685 0 0000	WDCT DC	ō	WORD IN ERROR COUNT	88D14590
0686 0 10000	MSG4T DC	ŏ		8BD14600
0687 0 0001	LNEO DC	/0001	TRACK IN ERROR STORE	85D14610
0688 0 8001	LNE1 DC	/8001		8BD14620
			*****	8BD14630
	*		^^^^^	8BD14640
	*	TECT	ING ROUTINE 8	8BD14650
	*	1631	ING KUUTINE 8	8BD14660
	********	XXXXXXXXXXXXX	******	8BD14670
0689 0 6808	RTV8 STX	3 RTN8B+1		8BD14680
068A 0 1010	SLA	16	SAVE IX 3	8BD14690
068B 00 D4000683	STO	L OECTR	CLEAR ODD EVEN CTR	8BD14700
068D 00 6600FFF8	LDX	L2 -8	TV 2	8BD14710
068F 00 440002A5	RTN8A BSI	L SP8F	IX 2 = NUMBER WORDS	8BD14720
0691 00 67000000				RC 8BD14730
0693 00 C4000683	RTN8B LDX	L3 O	RESTORE IX 3	8BD14740
0693 00 C4000683	LD	L DECTR	GET ODD/EVEN CTR	88D14740 88D14750
0693 00 C4000683 0695 00 84000684	LD A	L DECTR L ONE	GET ODD/EVEN CTR ADD 1	8BD14740
0693 00 C4000683 0695 00 84000684 0697 00 D4000683	LD A Sto	L DECTR L ONE L DECTR	GET ODD/EVEN CTR ADD 1 Save	8BD14740 8BD14750 8BD14760 8BD14770
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804	LD A Sto BSC	L DECTR L DNE L DECTR E	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN	8BD14740 8BD14750 8BD14760
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E	LD A Sto BSC MDX	L OECTR L ONE L OECTR E RTN8M	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO	8BD14740 8BD14750 8BD14760 8BD14770
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044	LD A STO BSC MDX LD	L OECTR L ONE L OECTR E RTNBM TRO	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941	LD A STO BSC MDX LD RTN8C EOR	L OECTR L ONE L OECTR E RTN8M TRO L2 IOAA+8	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD147.0
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044	LD A STO BSC MDX LD ATN8C EOR STO	L OECTR L ONE L OECTR E RTNBM TRO	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT	8BD14740 8BD14750 8BD14760 8BD14770 8BD14770 8BD14780 8BD147.0
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941	LD A STO BSC MDX LD RTN8C EOR STO	L OECTR L ONE L OECTR E RTN8M TRO L2 IOAA+8 L2 IDAA+8	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD147 .0 8BD14800 8BD14810
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941	LD A STO BSC MDX LD ATN8C EOR STO BSI	L OECTR L ONE L OECTR E RTN8M TRO L2 IOAA+8	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD147.0 8BD14800 8BD14810 8BD14820
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941	LD A STO BSC MDX LD RTN8C EOR STO * BSI	L OECTR L ONE L DECTR E RTN8M TRO L2 IOAA+8 L2 IOAA+8	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD147.0 8BD148.00 8BD148.00 8BD148.10 8BD148.20 8BD148.30
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 06A2 00 440002D4	LD A STD BSC MDX LD RTN8C EOR STO # BSI	L OECTR L ONE L DECTR E RTN8M TRO L2 IOAA+8 L2 IOAA+8 L WRT L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD147.0 8BD14800 8BD14810 8BD14820 8BD14830 8BD14840
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941	LD A STO BSC MDX LD RTN8C EOR STO * BSI BSI BSI BSI	L OECTR L ONE L DECTR E RTN8M TRO L2 IOAA+8 L2 IOAA+8	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE S GO BACKSPACE S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14770 8BD14780 8BD14780 8BD14800 8BD14810 8BD14820 8BD14830 RC 8BD14840 9BD14850 RC 8BD14860
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 0cA0 00 440002D4 06A2 00 440003C4	LD A STO BSC MDX LD ATN8C EOR STO * BSI BSI BSI	L OECTR L ONE L OECTR E RTN8M TRO L2 IOAA+8 L2 IOAA+8 L WRT L BSP L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE S GO BACKSPACE S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD14780 8BD14800 8BD14810 8BD14820 8BD14830 RC 8BD14840 9BD14850 RC 8BD14850 RC 8BD14870
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 0cA0 00 440002D4 06A2 00 440003C4 06A6 00 440003C4	LD A STO BSC MDX LD ATN8C EOR STO * BSI BSI RTN8D BSI	L OECTR L ONE L OECTR E RTN8M TRO L2 IOAA+8 L2 IOAA+8 L WRT L BSP L BSP L RD	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE GO BACKSPACE S GO READ S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD14780 8BD14800 8BD14810 8BD14810 8BD14820 8BD14840 9BD14840 9BD14850 RC 8BD14840 9BD14850 RC 8BD14860 RC 8BD14860
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 0cA0 00 440002D4 06A2 00 440003C4	LD A STO BSC MDX LD RTN8C EOR STO # BSI BSI BSI BSI BSI BSI BSI BSI BSI BSI	L OECTR L ONE L OECTR E RTN8M TRO L2 IOAA+8 L2 IOAA+8 L WRT L BSP L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE SO BACKSPACE SO BACKSPACE SO BACKSPACE SO READ SO SAVE	8BD14740 8BD14750 8BD14760 8BD14770 8BD14780 8BD147.0 8BD14800 8BD14810 8BD14820 8BD14820 8BD14840 8BD14840 8BD14850 RC 8BD14870 8BD14880 RC 8BD14880
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 0cA0 00 440002D4 06A2 00 440003C4 06A6 00 440003C4	LD A STO BSC MDX LD ATN8C EOR STO * BSI BSI BSI BSI BSI BSI BSI BSI BSI BSI	L OECTR L ONE L DECTR E RTNBM TRO L2 IDAA+8 L2 IDAA+8 L WRT L BSP L BSP L RD L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE GO BACKSPACE S GO BACKSPACE S GO BACKSPACE S S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14770 8BD14780 8BD14800 8BD14810 8BD14810 8BD14820 8BD14820 8BD14820 8BD14850 RC 8BD14860 RC 8BD14860 RC 8BD14870 8BD14880 RC 8BD14890 RC 8BD14900
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 0cA0 00 440002D4 06A2 00 440003C4 06A6 00 440003C4	LD A STO BSC MDX LD RTN8C EOR STO # BSI BSI BSI BSI BSI BSI # RTN8D BSI BSI # *	L OECTR L ONE L DECTR E RTNBM TRO L2 IDAA+8 L2 IDAA+8 L WRT L BSP L BSP L RD L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE SO BACKSPACE SO BACKSPACE SO BACKSPACE SO READ SO SAVE	8BD14740 8BD14750 8BD14760 8BD14770 8BD14770 8BD14780 8BD14800 8BD14810 8BD14820 8BD14830 RC 8BD14840 9BD14850 RC 8BD14860 RC 8BD14870 8BD14880 RC 8BD14880 RC 8BD14890 8BD14910
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 06A2 00 440003C4 06A4 00 440003C4	LD A STO BSC MDX LD EOR STO * BSI BSI BSI BSI BSI BSI BSI BSI BSI BSI	L OECTR L ONE L OECTR E RTNBM TRO L2 IOAA+8 L2 IOAA+8 L WRT L BSP L BSP L RD L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE GO BACKSPACE SO BACKSPACE	8BD14740 8BD14750 8BD14760 8BD14770 8BD14770 8BD14780 8BD14800 8BD14810 8BD14820 8BD14830 RC 8BD14840 9BD14850 RC 8BD14860 RC 8BD14860 RC 8BD14870 8BD14880 RC 8BD14890 RC 8BD14910 8BD14910 8BD14920
0693 00 C4000683 0695 00 84000684 0697 00 D4000683 0699 0 4804 069A 0 702E 069B 0 C044 069C 00 F6000941 069E 00 D6000941 0cA0 00 440002D4 06A2 00 440003C4 06A6 00 440003C4	LD A STO BSC MDX LD RTN8C EOR STO # BSI BSI BSI BSI BSI BSI # RTN8D BSI BSI # *	L OECTR L ONE L DECTR E RTNBM TRO L2 IDAA+8 L2 IDAA+8 L WRT L BSP L BSP L RD L BSP	GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT SET BAD CHARACTER GO WRITE GO BACKSPACE GO BACKSPACE S GO BACKSPACE S GO BACKSPACE S S	8BD14740 8BD14750 8BD14760 8BD14770 8BD14770 8BD14780 8BD14800 8BD14810 8BD14820 8BD14830 RC 8BD14840 9BD14850 RC 8BD14860 RC 8BD14870 8BD14880 RC 8BD14880 RC 8BD14890 8BD14910

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

	0 D4000685		STO	L	WDCT	SET AS WD CT	8BD14950
OGAE O			SLA		16	CLEAR A REG	8BD14960
	0 D4000686		STO	L	MSG4T	SAVE	8BD14970
06B3 0	0 C4000687		LD	L		SET LINE O	8BD14980
06B4 0			STO	_	RTNBQ		8BD14990
0685 0			STX		RTN8J+1	SAVE IX 3	88015000
	0 C7000941	RTV8H	LDX		-8	IX 3 = NUMBER WORDS	8BD15010
06B8 0		KITOH	EOR	LJ	IDAA+8 P8F	GET A DATA WD	8BD15020
06B9 0			BSC		Z	IS WD CORRECT	8BD15030
06BA 0			MDX		RTN8N	NO	8BD15040
06BB 0	0 74010685	RTNSF		L	WDCT,1	INCR WD CT	8BD15050
06 BD 0			MDX		1	DECR IX 3	8BD15060
06BE 0	70F7		MDX	_	RTN8H	LOOP	88D15070
06BF 0	0 67000000	RTNBJ	LDX	L3		RESTORE IX 3	88015080 88015090
		*					8BD15100
		*			CHECK	FOR ROUTINE COMPLETE	8BD15110
		*					8BD15120
	0 C4000683	R TN 8K		L	OECTR	GET ODD EVEN CTR	8BD15130
0603 0			BSC		E	IS IT EVEN	8BD15140
0604 0			MDX	_	RTNBA	NO	8BD15150
06C5 0			MDX	2	_	DECR IX 2	8BD15160
	0 4C0001EA	DTNO	MDX		RTN8A	CONTINUE RTN	8BD15170
0007	U 4COUUTEA	RTN8L	B 2 C	L	RETRN	ROUTINE COMPLETE	8BD15180
		*			000 5	VEN 670 10	8BD15190
		*			יש-ניטט	VEN CTR IS ODD	8BD15200
0609 0	C016	RTV8M	וח		TRO	CET BAD TO CONCTANT	8BD15210
OGCA O		N	SLA		8	GET BAD TR CONSTANT MOVE TO FIRST CHAR	8BD15220
06CB 0			MDX		RTNBC	HOVE TO FIRST CHAR	8BD15230
		*					8BD15240
		*			DATA	IS NOT CORRECT	8BD15250 8BD15260
		*				o war damed,	8BD15270
	0 C40006E1	2 T N 8N	LD	L	P8F	GET PATTERN	8BD15280
06CE 0			STO		PRPAT	SET FOR PRINT	8BD15290
	0 4400043A		BSI	L	PRINT	PRINT BAD DATA	8BD15300
06D1 0			D C		/E001	ERROR 1	8BD15310
06D2 0 06D3 0		RTN 8Q			/0001	FORM 1	8BD15320
06D4 0	7001 70D1		MDX		RTN8P	CONTINUE	8BD15330
	0 00000102	RTN8P	MDX		R TN8 D	LOOP ON ERROR	8BD15340
	0 C4000688		LD		RDBSW	READ DATA SWS	8BD15350
0609 0			STO		LNE1 RTN80	SET NOT LINE O	3BD15360
_	0 C40001CB			L	SWO	GET SWS	8BD15370
06DC 0	1007		SLA		7	OCT SWS	8BD15380
06DD 0	4810		B SC		<u>.</u>	PRINT ONLY FIRST	8BD15390 8BD15400
06DE 0	70DC		MDX		RTN8F	NO	8BD15410
06 DF 0	70DF		MDX		RTN8J	YES	8BD15420
		*					8BD15430
		*			CONSTA	INTS	8BD15440
		*					8BD15450
06E0 0	0080		DC		/0080	BAD TR CONSTANT	3BD15460
06E1 0		P8F				PATTERN	8BD15470
06E2 0	0000	PRPAT			0	PATTERN TO PRINT	8BD15480
		* * * * * * * * * * * * * * * * * * *	****	XXX	****	*******	8BD15490
		*			****		8BD15500
		*			152114	IG ROUTINE 9	86D15510
			****	Y Y Y	****	********	8BD15520
06E3 0	6208	RTN9		2		IX 2 = NO TRACKS	8BD15530
06E4 0	6308	RT190		3		IN 2 - NU TRACES	8BD15540
06E5 0		RTV9J				GET PATTERN	8BD15550
	D7000938					SET IN I/O AREA	8BD15560 8BD15570
06E8 0	73FF		MDX	Ĩġ.		DECR IX 3	8BD15580
06E9 0	70FB		MD X		RTN9J		8BD15590
	67000131	t	LDX			IX 3 = 305 CHARACTER	8BD15600
06EC 0			SLA			CLEAR A REG	8BD15610
06ED 00	D7000940	RTN9K S	S TO	L3	I OAA+7	SET IN I/O AREA	8BD15620

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

06EF		73FF		MDX	3	-1	DECR IX 3		8BD15630
06F0	-	70FC		MDX		R TN9K	LOOP		8BD15640
06 F 1	-	C05D		LD		CRCSP	GET 00D5		8BD15650
		D4000942		STO	L	IOAA+9	SET AS CRC CHARACTER		88D15660
		D4000944		STO	L	IOAA+11	SET AS LRC CHARACTER		8BD15670
06F6	-	6308		LDX	3	8			8BD15680
		C7000938	RTN9A	LD	L3	IOA	GET A DATA WD		8BD15690
		F6000745		EOR	L2	TRKA-1	SET DEAD TRACK		8BD15700
		D7000938		STO		I OA	STORE		8BD15710
06FD		73FF		MDX	3	-1	DECR IX 3		8BD15720
06FE		70F8		MDX		RTN9A	LOOP		8BD15730
		C4000942		LD	L	IDAA+9	GET CRC CHARACTER		8BD15740
		F600073D		EOR		CRCA-1	SET DEAD TRACK		8BD15750
		D4000942		STO	L	IOAA+9	SET AS CRC CHARACTER		8BD15760
0105	UU	D4000944		STO	L	IOAA+11	SET AS LRC CHARACTER		8BD15770
0707	00	440002D4	*						8BD15780
0,0,	vv	44000204	*	BSI	L	WRT	GO WRITE	SRC	8BD15790
0709	00	440003C4	•	0 0 1		0.00	20 010400100		8BD15800
		440003C4		B S I B S I	L	BSP	GO BACKSPACE	SRC	8BD15810
0.00	•	44000304	•	031	L	BSP	GO BACKSPACE	SRC	8BD15820
0700	00	4400032C	RTN9B	RCT	L	RD	CO 0540		8BD15830
		440003C4	K114 70	BSI	Ĺ	BSP	GO READ	SRC	8BD15840
. .	•	11000304	*	031	۲.	BSP	GO BACKSPACE	SRC	8BD15850
						CHECK	DATA		8BD15860
			*			CHECK	DATA		8BD15870
0711	0	63F8		LDX	3	-8	IX 3 = NUMBER WDS		8BD15880
0712	00	C4000684		LD	L	ONE	SET WD CT = 1		8BD15890
		D4000685		STO	ī	WDCT	SET WD CT - 1		88D1 5900
		C600074F		LD		TRKMS-1	GET TRK IN ERROR		8BD15910
0718	00	D4000686		STO	Ĺ	MSG4T	SAVE		8BD15920 8BD15930
		C4000687		LD	Ĺ	LNEO	SET LINE O		8BD15940
071C		D013		STO		RTN90			8BD15950
		C7000941	RTV9C	LD	L3	IDAA+8	GET A DATA WD		8BD15960
071F		F02E		EOR		P8F70			8BD15970
0720		4820		BSC		2	IS IT CORRECT		8BD15980
0721		7008		MDX		RTN9F	NO		8BD15990
		74010685	RTN9D	MDX	L	WDCT,1	INCR WD CT		8BD16000
0724		7301		MDX	3	1	DECR IX 3		8BD16010
0725	-	70F7		MDX		RTN9C	LOOP		8BD16020
0726		72FF	RTN 9E		2	-1	IS RTN COMPLETE		8BD16030
0727		70BC		MDX		RTN90	NO		8BD16040
0728	00	4C0001EA	_	BSC	L	RETRN	YES		8BD16050
			*						8BD16060
			*			DATA	S INCORRECT		8BD16070
072A	Λ	C023	RTN 9F			00570	057 01555		8BD16080
		D40006E2	KINSE			P8F70	GET PATTERN		8BD16090
		4400043A			L L	PRPAT PRINT	SET FOR PRINT		8BD16100
072F		E001		DC	۲.	/E001	PRINT BAD DATA		88016110
0730	-	0001	RTV9Q			/0001	ERROR 1		8BD16120
0731		7001	K. 4,4	MDX		RTN9H	FORM 1 CONTINUE		8BD16130
0732	0	70DA		MDX		RTN9B			8BD16140
		OC0001C2	RTN9H		L	RDBSW	LOGP ON ERROR READ DATA SWS		8BD16150
0735	00	C4000688			Ĺ	LNE1	SET NOT LINE O		8BD16160
0737		DOF8		STO	_	RTN9Q	SET HOT EINE O		8BD16170
0738	00	C40001CB			L	SWO	GET SWS		8BD16180
073A	0	1007		SLA		7	J. 3. 3		8BD16190 8BD16200
073B	0	4810		3 S C		-	PRINT ONLY FIRST		8BD16210
073C		70E5		MDX		RTN9D	NO		8BD16220
073 D	0	70E8		MDX		RTN9E	YES		8BD16230
			*						8BD16240
			*			CONSTA	INTS		8BD16250
070-	_		*						8BD16260
073E		0001	CRCA	DC		/0001	CRC CNST-TRK 7		8BD16270
073F		0000		DC		/0000	6		8BD16280
0740		0004		DC		/0004	5		8BD16290
0741	U	0000		DC		/0000	4		8BD16300

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IBM MAINTENANCE	DIAGNUSTIC P	OGRAM FUR I	HE TROO SAZLEM		PART NI PAGE	D. 21832
2400 CYCLIC REDU	NDANCY CHECK	FUNCTION TES	т		7 400	1
0742 0 0000	DC	/0000	3		88014310	
0743 0 0020 0744 0 0000	DC	/0020	2		8BD16310 8BD16320	
0745 0 0000	DC DC	/0000	1		8BD16330	
0746 0 0100	TRKA DC	/0000 /0100	0		8BD16340	
0747 0 0200	DC	/0200	DEAD TR CNST-TR 7		8BD16350	
0748 0 0400	DC	/0400	6 5		8BD16360	
0749 0 0800	DC	/0800	9 4		8BD16370	
074A 0 0010 074B 0 0020	DC	/0010	3		8BD16380 8BD16390	
074B 0 0020 074C 0 0040	DC	/0020	2		8BD16490	
074D 0 8000	DC DC	/0040	1		8BD16410	
074E 0 8F70	P8F70 DC	/8000 /8F70	DATA DATES		8BD16420	
074F 0 0025	CRCSP DC	/0025	DATA PATTERN CRC/LRC CHARACTER		8BD16430	
0750 0 0007	TRKMS DC	7	TRACK IN ERROR-TRK	7	8BD16440	
0751 0 0006	DC	6	THE CHILDRE THE	6	8BD16450 8BD16460	
0752 0 0005 0753 0 0004	DC	5		5	8BD16470	
0754 0 0003	DC DC	4		4	8BD16480	
0755 0 0002	DC DC	3 2		3	8BD16490	
0756 0 0001	DC	1		2	8BD16500	
0757 0 0000	DC	ō		1	8BD16510	
	*XXXXXXXX	×	*******	0 ¥ ¥	8BD16520	
	•			^^	88D16530 88D16540	
	*	TES	TING ROUTINE 10		88D16550	
	-	V VV VV V V V V V V V V V V V V V V V			88D16560	
0758 0 6208	RTN10 LDX	· · · · · · · · · · · · · · · · · · ·	XXXXXXXXXXXXXXXXXXXXXXX	ХX	8BD16570	
0759 0 6308	RTIOL LDX	3 8	IX 2 = NO TRACKS		8BD16580	
075A 0 COF3	RT10J LD	P8F70	GET PATTERN		8BD16590	
075B 00 D70C0938	STO	L3 IOAA-1	SET IN I/O AREA		8BD16600	
075D 0 73FF 075E 0 70FB	MDX	3 -1	DECR IX 3		8BD16610 8BD16620	
075E	MDX	RT10J	LOOP		8BD16630	
0761 0 1010	LDX SLA	L3 305	IX 3 = 610 CHARACTE	RS	8BD16640	
0762 00 D7000940	RTIOK STO	16 L3 IOAA+7	CLEAR A REG		8BD16650	
0764 0 73FF	4DX	3 -1	SET IN I/O DECR IX 3		8BD16660	
0765 0 70FC	MDX	RT10K	LOOP		8BD16670	
0766 0 COE8	LD	CRCSP	GET CRC/LRC		8BD16680	
0767 00 D4000942	STO	L IDAA+9	SET AS CRC		8BD16690 8BD16700	
0769 00 D4000944 0768 0 6308	\$10	L IDAA+11	SET AS LRC		88D16710	
076C 00 C7000938	LDX RT10B LD	3 8			8BD16720	
076E 00 F60007AA	EOR	L3 IDA L2 TRKD-1	GET A DATA WD		8BD16730	
0770 00 D7000938	STO	L3 IOA	SET DEAD TRACK SET AS DATA		8BD16740	
7772 0 73FF	MDX	3 -1	DECR IX 3		8BD16750	
0773 0 70F8	MDX	RT10B	LOOP		88D16760	
774 00 440002D4	*				8BD16770 8BD16780	
7774 00 44000204	BSI ★	L WRT	GO WRITE	SRC	8BD16790	
776 00 44000304		1 000			8BD16800	
778 00 44000304	BSI BSI	L BSP L BSP	GO BACKSPACE	SRC	8BD16810	
	*	L USF	GO BACKSPACE	SRC	8BD16820	
77A 00 4400032C	RT10G BSI	L RD	GD READ	c n.c	8BD16830	
770 00 44000304	B 2 I	L BSP	GO BACKSPACE	S R C S R C	8BD16840	
	*			3 4 6	88D16850 8BD16860	
	*	CHEC	K DATA		88D16870	
77E 0 63F8	* IDV	2 0			8BD16880	
77F 00 C4000684	LDX LD	3 -8	IX 3 = NUMBER WDS		8BD16890	
781 00 D4000685	STO	L ONE L WDCT	GET 1		88016900	
783 00 C600074F	LD	L2 TRKMS-1	SET AS WD CT GET TRK IN ERROR		8BD16910	
785 00 04000686	\$10	L MSG4T	SAVE		8BD16920	
787 00 C4000687	LD	L LNEO	SET LINE O		8BD16930 8BD16940	
789 0 DO13 78A 00 (7000941	STO	RT1UQ			8BD16950	
78C 0 FOC1	RT10C LD	L3 10AA+8	GET A DATA WD		8BD16960	
78D 0 4820	E O R B S C	P8F70	TC 17 0005 ===		8BD16970	
	D 3C	Z	IS IT CORRECT		8BD16980	
TE 01MAY66 NO. 415120A	04N0V66 415233					
					PROG ID	

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST 078E 0 7008 MDX RT10F 8BD16990 078F 00 74010685 RT1 OD MDX L WDCT.1 INCR WD CT 8BD17000 0791 0 7301 MDX 3 1 DECR IX 3 0792 0 70F7 8BD17010 MDX RT10C LOOP 0793 0 72FF 8BD17020 RT10E MDX 2 -1 IS ROUTINE COMPLETE 8BD17030 0794 0 7004 MDX RT10L 8BD17040 0795 00 4C0001EA BSC L RETRN EXIT 8BD17050 8BU17060 DATA IS INCORRECT 8BD17070 0797 0 C086 88D17080 RT10F LD P8F70 GET PATTERN 8BD17090 0798 00 D40006E2 STO L PRPAT SET FOR PRINT 8BD17100 079A 00 4400043A BSI PRINT PRINT BAD DATA 8BD17110 079C 0 E001 /E001 ERROR 1 8BD17120 079D 0 0001 RT1 0Q DC /0001 FORM 1 8BD17130 079E 0 7001 MDX RT10H CONTINUE 8BD17140 079F 0 70DA MDX RT10G LOOP ON FRROR 88017150 07A0 00 0C0001C2 RT10H XIO RDBSW READ DATA SWS 8BD17160 07A2 00 C400G688 LD LNE1 SET NOT LINE O 8BD17170 07A4 0 DOF8 STO RT100 07A5 00 C40001CB 8BD17180 L SWO LD GET SWS 8BD17190 07A7 0 1007 A 12 7 88017200 07A8 0 4810 BSC PRINT ONLY FIRST 8BD17210 07A9 0 70E5 MDX RT10D 07AA 0 70E8 8BD17220 MDX RT10E YES 8BD17230 8BD17240 CONSTANTS 8BD17250 07AB 0 0101 8BD17260 TRKD DC /0101 BAD TRK CNST-TR 7 07AC 0 0202 8BD17270 DC 10202 8BD17280 07AD 0 0404 DC /0404 8BD17290 07AE 0 0808 DC /0808 8BD17300 07AF 0 1010 DC /1010 0780 0 2020 8BD17310 DC /2020 0781 0 4040 8BD17320 /4040 0782 0 8080 8BD17330 /8080 8BD17340 0783 0 808U TRKB DC /8080 BAD TR CONSTANT 8BD17350 8BD17360 8BD17370 TESTING ROUTINE 11 8BD17380 8BD17390 8BD17400 0784 00 440002BC RTV11 BSI L SP80 SET I/O AREA 88D17410 0786 0 6307 RTIIL LDX 0787 00 C7000938 8BD17420 RT11A LD L3 IOA GET A PATT WD 07B9 00 E40007F6 85D17430 AND L R11X0 SET LOST CHARACTER 8BD17440 0788 00 D7000938 STO L3 IDA SET 8BD17450 07BD 0 73FF MDX 3 -1 DECR IX 3 8BD1746C 07BE 0 70F8 MDX RT11A LOOP 8BD17470 8BD17480 07BF 00 440002D4 BSI L WRT GO WRITE SRC 8BD17490 07C1 00 440003C. 8BD17500 BSI L BSP GO BACKSPACE 8BD17510 0703 00 44000304 BSI L BSP GO BACKSPACE SRC 85017520 07C5 00 4400032C 8BD17530 RT11B BSI L RD GO READ SRC 8BD17540 07C7 00 440003C4 BSI L BSP GO BACKSPACE SRC 8BD17550 88D17560 CHECK DATA 8BD17570 07C9 0 63F8 8BD17580 LDX 3 -8 IX 3 = NUMBER WDS 07CA 00 C4000684 8BD17590 LD L ONE GET 1 8BD17600 07CC 00 D4000685 STO L WDCT SET AS WD CT 8BD17610 07CE 00 C4000513 LD L TERM GET FEFF 07D0 00 D4000686 8BD17620 STO L MSG4T SET AS TRK IN ERROR 07D2 00 C4000687 9BD17630 LD L LNEO SET LINE O 8BD17640 07D4 0 D013 STO RT110 8BD17650 07D5 00 C7000941 RTIIC LD L3 IDAA+8 GET A DATA WD 8BD17660

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

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07D7 00 F40002D3	EOR	L P80			88017470
07D9 0 4820	B SC	2	IS WD CORRECT		8BD17670
07DA 0 7006	MDX	RT11F	NO NO		8BD17680
07DB 00 74010685	RT11D MDX		INCR 4D CT		8BD17690
07DD 0 7301	MDX		DECR IX 3		8BD17700
07DE 0 70F6	MDX	RTIIC	DECK 1X 3		8BD17710
07DF 00 4C0001EA	RTI1E BSC	L RETRN	DOUTTME EVE		8BD17720
10000121	*	L KEIKM	ROUTINE EXIT		8BD17730
					8BD17740
		UAI	A IS INCORRECT		8BD17750
07E1 00 C40002D3	07115 40				8BD17760
07E3 00 D40006E2	RT11F LD	L P80	GET PATTERN		8BD17770
	STO		SET FOR PRINT		8BD17780
07E5 00 4400043A	BSI	L PRINT	PRINT BAD DATA		8BD17790
07E7 0 E001	DC	/E001	ERROR 1		8BD17800
07E8 0 0001	RTI1Q DC	/0001	FORM 1		8BD17810
07E9 0 7001	MDX	RT11H	CONTINUE		8BD17820
07EA 0 70DA	MDX	RT11B	LOOP ON ERROR		88D17830
07EB 00 0C0001C2	RT11H XIO	L RDBSW	READ DATA SWS		8BD17840
07ED 00 C4000688	LD	L LNE1	SET NOT LINE O		88D17850
O7EF O DOF8	STO	RT110	TO THE COME O		
07F0 00 C40001CB	LD	L SWO	GET SWS		8BD17860
07F2 0 1007	SLA	7	021 3H3		8BD17870
07F3 0 4810	B SC	<u>-</u>	PRINT ONLY FIRST		8BD17880
07F4 0 70E6	MDX	RT11D	NO ONLY PIKST		8BD17890
07F5 0 70E9	MDX	RTILE			8BD17900
07F6 0 FF00	RIIXO DC	/FF00	YES		8BD17910
			SET LOST CHAR		8BD17920
	*^^^^^		******	XXX	8BD17930
	.				8BD17940
	•		TING ROUTINES 12		8BD17950
	•	THR	DUGH 18		8BD17960
	*				8BD17970
0757 0 7056	*XXXXXXXXX	(X X X X X X X X X X X X X X X X X X X	**************	XXX	8BD17980
07F7 0 73F5	CMR12 MDX	3 -11	SET IX 3		8BD17990
07F8 0 6B08	STX	3 CM123+1	SAVE IX 3		8BD18000
07F9 0 1010	SLA	16	ZERO A REG		8BD18010
07FA 00 D4000683	STO	L OECTR	CLEAR ODD EVEN CTR		8BD18020
07FC 00 6600FFF8	LDX	L2 -8	IX 2 = NO WDS		8BD18030
07FE 00 440002BC	CM120 BSI	L 5º80	SET I/O AREA	SRC	
0800 00 67000000	CM123 LDX	L3 0	RESTORE IX 3	340	8BD18040
0802 00 C4000683	LD	l UECTR	GET ODD EVEN CTR		88D18050
0804 00 8400068 4	A	l ONE	ADD 1		8BD1 8060
0806 00 D4000683	STO	L OECTR	SAVE		8BD18070
0808 0 4804	BSC	E	IS CTR EVEN		8BD18080
0809 0 7032	MDX	ČM122	NO		8BD18090
080A 00 C7000679	LD	13 TR1-1		_	8BD18100
080C 00 F6000941	CM121 EOR	L2 IOAA+8	GET BAD TRACK CONS	1	88D18110
080E 00 D6000941	STO		SET		88D18120
0810 0 6807	STX	12 10AA+8	SET		8BD18130
0811 00 440002D4		3 CM12F+1	SAVE IX 3		8BD18140
2011 00 44000204	BSI *	L WRT	GD WRITE	SRC	8BD18150
0813 00 44000304	•				8BD18160
0815 00 44000304	BSI	L BSP	GO BACKSPACE	SRC	PBD18170
0817 00 67060000	BSI	L BSP	GO BACKSPACE	SRC	8BD18180
		L3 0	RESTORE IX 3		8BD18190
0819 00 4400032C	BSI	L RD	GO READ	SRC	88018200
081B 00 440003C4	BSI	L BSP	GO BACKSPACE	SRC	8BD18210
	•				8BD18220
	*	CHEC	K DATA		88018230
	*				8BD18240
081D 00 C4000684	CM126 LD	L ONE	GET 1		8BD1 8250
081F 00 N4000685	STO	L WDCT	SET AS WD CT		8BD18260
0821 00 6F000686	STX	L3 MSG4T	SET TRK IN ERROR		8BD18270
0823 00 C4000687	LD	L LNEO	SET LINE O		8BD18280
0825 0 D021	STO	CM12Q			
0826 0 6B0C	STX	3 CM128+1	SAVE IX 3		8BD18290
0827 0 63F8	LDX	3 -8	IX 3 = NO WDS		8BD18300
0828 00 C7900941	CM12C LD	L'I IOAA+8	GET A DATA WD		8BD18310
082A 00 F40002D3			JET A DATA WU		8BD1 8320
	FUB	I PRO			
082C 0 4820	EDR BSC	L P80	IS UD CORRECT		8BD18330
082C 0 4820	E D R B S C	L P80 Z	IS WD CORRECT		8BD18330 8BD18340

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2400	CTULIC	KE DUNDANC Y	CHECK	FUNCTION	TEST	

082D 0 7012	MDX		CM12B	NO		8BD18350
082E 00 74010685	CM12D MDX	L		INCR WD CT		8BD18360
0830 0 7301	MDX	3	1	DECR IX 3		8BD18370
0831 0 70F6	MDX		CM12C	LOOP		8BD18380
0832 00 67000000	CM128 LDX	L3	0	RESTORE IX 3		8BD18390
	*					8BD18400
	*		CHECK	FOR ROUTINE COMPLETE	:	8BD18410
	*			The state of the case	•	8BD18420
0834 00 C4000683	CM12E LD	L	OECTR	GLT ODD EVEN CTR		8BD18430
0836 0 4804	BSC		E	IS IT EVEN		
0837 0 7006	MDX		CM120	NO EVEN		88D18440
0838 0 7201	MDX	2	1	DECR IX 2		8BD18450
0839 0 7004	MDX	_	CM120	DECK IX 2		8BD18460
083A 00 4C00G1EA	CM125 BSC	L		DTN EVIT		8BD18470
	*		KEIKN	RTN EXIT		8BD18480
	*		000 5	WEN CED TO 000		8BD18490
	*		טטט ב	VEN CTR IS ODD		8BD1 8500
083C 00 C7000679	•		TO: 1	055 045 55 55		8BD18510
083E 0 1008	CM122 LD	L3	TR1-1	GET BAD TR CONSTANT		8BD18520
	SLA		8	MOVE TO FIRST CHAR		8BD18530
083F 0 70CC	MDX		CM121			8BD18540
	*					8BD18550
			DATA	IS NOT CORRECT		8BD18560
00/0 00 0/00000	*					88D18570
0840 00 C40002D3	CM12B LD	L	P80	GET EXPECTED		88018580
0842 00 D40006E2	STO	L	PRPAT	SAVE		8BD18590
0844 00 4400043A	BSI	L	PRINT	GO PRINT	SRC	8BD18600
0846 0 E001	DC		/E001	ERROR 1		8BD18610
0847 0 0001	CM12Q DC		/0001	FORM 1		8BD18620
0848 0 7001	MDX		CM127	CONTINUE		8BD18630
0849 0 70CD	MDX		CM12F	LOOP ON ERROR		8BD18640
084A 00 0C0001C2	CM127 XIO	L	RDBSW	READ DATA SWS		8BD18650
084C 00 C4000688	LD	L	LNE1	SET NOT LINE O		88D18660
084E 0 DOF8	STO		CM12Q	TO THE COME O		8BD18670
084F 00 C40001CB	LD	L	SWO	GET SWS		
0851 0 1007		•				8BD18680
	SLA		7			8BD18690
0851 0 1007 0852 0 4810	SLA BSC		7	IS PRINT ONLY 1 ON		8BD18690 8BD18700
0851 0 1007 0852 0 4810 0853 0 70DA	SLA BSC MDX		7 - CM12D	IS PRINT ONLY 1 ON		8BD18690 8BD18700 8BD18710
0851 0 1007 0852 0 4810	SLA BSC MDX MDX		7 - CM12D CM128	IS PRINT ONLY 1 ON NO YES		8BD18690 8BD18700 8BD18710 8BD18720
0851 0 1007 0852 0 4810 0853 0 70DA	SLA BSC MDX MDX *XXXXXXXX		7 - CM12D CM128	IS PRINT ONLY 1 ON	x	8BD18690 8BD18700 8BD18710 8BD18720 8BD18730
0851 0 1007 0852 0 4810 0853 0 70DA	SLA B SC MD X MD X *XX XX XX X X X		7 - CM12D CM128 XXXXXXXXXX	IS PRINT ONLY 1 ON NO YES	×	8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740
0851 0 1007 0852 0 4810 0853 0 70DA	SLA BSC MDX MDX *XXXXXXXX		7 - CM12D CM128 XXXXXXXXXX	IS PRINT ONLY 1 ON NO YES	x	88D18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750
0851 0 1007 0852 0 4810 0853 0 70DA	SLA BSC MDX ***********************************	XXX:	T CM12D CM12B XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD	SLA BSC MDX ***********************************	XXX:	7 CM12D CM128 XXXXXXXXXXX TESTI	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD	SLA B SC MDX ************************************	xxx:	7 CM12D CM128 XXXXXXXXXXX TESTI	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD	SLA BSC MDX MDX *XXXXXXXXX * * * * *XXXXXXXXXX	XXX: XXX: L	T CM12D CM12B XXXXXXXXXX TESTI	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR		8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD18780
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0855 0 1010 0856 00 D4000682 0858 00 6600+FF8	SLA BSC MDX *XXXXXXXXXX * * * * *XXXXXXXXXXXXXX	XXX: XXX: L L2	T CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXXXXXX 16 DECTR -8	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	x	88D18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 9BD18770 8BD18780 8BD18780 8BD188800
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0855 0 1010 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E	SLA BSC MDX MDX *XXXXXXXXXX * * * * *XXXXXXXXXX	XXX: XXX: L L2 L	7 CM12D CM128 XXXXXXXXXXX TESTI XXXXXXXXXXX 16 OECTR -8 SP7F	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA		8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD18780
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0855 0 1010 0856 00 D4000683 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683	SLA BSC MDX MDX *XXXXXXXXXX * * * * *XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7 CM12D CM128 XXXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR	x	8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD18800 8BD188800 8BD18810
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0855 0 1010 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684	SLA BSC MDX MDX *XXXXXXXXX * * * * *XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	T CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXXXX 16	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1	x	88D18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770 8BD18790 8BD18800 8BD18810
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0855 0 1010 0856 00 04000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 04000683	SLA BSC MDX MDX *XXXXXXXXX * * * * *XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 DECTR -8 SP7F DECTR ONE DECTR	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	x	8BD18690 8BD18710 8BD18710 8BD18720 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770 8BD18780 8BD18800 8BD18800 8BD18810 8BD18840
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 0 1010 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804	SLA BSC MDX MDX *XXXXXXXXXX * * * * *XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	T CM12D CM12B XXXXXXXXXX TESTI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	x	8BD18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD18890 8BD18890 8BD18810 8BD18820 8BD18830
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 0 1010 0856 00 04000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 04000683 0862 0 4804 0863 0 7030	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F DECTR UNE OECTR E RT19M	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO	x	8BD18690 8BD18710 8BD18710 8BD18720 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770 8BD18780 8BD18800 8BD18800 8BD18810 8BD18840
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 0 1010 0856 00 04000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 04000683 0862 0 4804 0863 0 7030 0864 00 C40006E0	SLA BSC MDX MDX *XXXXXXXXXX * * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR ONE OECTR E RT19M TR0	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT	x	88D18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD18790 8BD18800 8BD18820 8BD18820 8BD18820 8BD18830 8BD18850
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 0 1010 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941	SLA BSC MDX MDX **XXXXXXXXX * * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 DECTR -8 SP7F DECTR UNE DECTR E RT19M TRO IOAA+8	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO	x	8BD18690 8BD18710 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18770 8BD18770 8BD18790 8BD18890 8BD18810 8BD18810 8BD18830 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 0 1010 0856 00 04000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 04000683 0862 0 4804 0863 0 7030 0864 00 C40006E0	SLA BSC MDX MDX *XXXXXXXXX * * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR ONE OECTR E RT19M TR0	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT	x	8BD18690 8BD18710 8BD18720 8BD18720 8BD18730 8BD18750 8BD18750 8BD18760 8BD18770 8BD18780 8BD18780 8BD18890 8BD18810 8BD18810 8BD18820 8BD18840 8BD18850 8BD18850 8BD18850
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600FFF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941	SLA BSC MDX *XXXXXXXXXX * * * * *XXXXXXXXXXX RTN19 SLA STO LDX RT19A BSI LD A STO BSC MDX LD RT19C EDR STO *	X X X X X X X X X X X X X X X X X X X	T CM12D CM12B KXXXXXXXXXX TESTI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT	x	8BD18690 8BD18710 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18770 8BD18770 8BD18790 8BD18890 8BD18810 8BD18810 8BD18830 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 0 1010 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 DECTR -8 SP7F DECTR UNE DECTR E RT19M TRO IOAA+8	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXX NG ROUTINE 19 XXXXXXXXXXXXXXXXXXXX CLEAR ODD EVEN CTR IX 2 = NO WDS GO SET I/O AREA GET ODD/EVEN CTR ADD 1 SAVE IS CTR EVEN NO GET BAD TR CONSTANT	x	88D18690 8BD18710 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD188790 8BD18880 8BD18810 8BD18820 8BD18830 8BD18840 8BD18850 8BD18870 8BD18870 8BD18880 8BD18870 8BD18890 8BD18990
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR ONE OECTR E RT19M TRO IOAA+8 IOAA+8	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18730 8BD18740 8BD18750 8BD18760 9BD18770 8BD18780 8BD18790 8BD18800 8BD18820 8BD18820 8BD18830 8BD18850 8BD18850 8BD18850 8BD18850 8BD18860 8BD18870 8BD18890 8BD18900 8BD18910
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 0868 00 440002D4	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 CECTR -8 SP7F DECTR UNE OECTR E RT19M TRO IOAA+8 IOAA+8 WRT BSP	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC	88D18690 8BD18700 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD18790 8BD18800 8BD18810 8BD18820 8BD18830 8BD18840 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18870 8BD18890 8BD18910 8BD18910
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR ONE OECTR E RT19M TRO IOAA+8 IOAA+8	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC	8BD18690 8BD18710 8BD18720 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770 8BD188790 8BD18810 8BD18820 8BD18840 8BD18840 8BD18850 8BD18850 8BD18860 8BD18870 8BD18870 8BD18890 8BD18910 8BD18920 8BD18920
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600FFF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4	SLA BSC MDX *XXXXXXXXXX * * * *XXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	T CM12D CM12B KXXXXXXXXX TESTI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC	8BD18690 8BD18710 8BD18720 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770 8BD188790 8BD18810 8BD18820 8BD18820 8BD18820 8BD18840 8BD18850 8BD18850 8BD18850 8BD18870 8BD18890 8BD18910 8BD18910 8BD18920 8BD18930 8BD18930 8BD18930
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4 086C 00 440003C4	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 CECTR -8 SP7F DECTR UNE OECTR E RT19M TRO IOAA+8 IOAA+8 WRT BSP	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18740 8BD18750 8BD18760 8BD18760 8BD18770 8BD18780 8BD188790 8BD188800 8BD18840 8BD18850 8BD18850 8BD18850 8BD18870 8BD18870 8BD18890 8BD18990 8BD18990 8BD18990 8BD18930 8BD18940 8BD18940
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600FFF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4	SLA BSC MDX *XXXXXXXXXX * * * *XXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	T CM12D CM12B KXXXXXXXXX TESTI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18730 8BD18740 8BD18750 8BD18760 9BD18770 8BD18780 8BD18790 8BD18820 8BD18820 8BD18820 8BD18850 8BD18850 8BD18850 8BD18850 8BD18890 8BD18890 8BD18990 8BD18910 8BD18930 8BD18940 8BD18940 8BD18950 8BD18950
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4 086C 00 440003C4	SLA BSC MDX *XXXXXXXXXX * * * *XXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM12B KXXXXXXXXXX TESTI XXXXXXXXXXX 16 DECTR -8 SP7F DECTR UNE DECTR E RT19M TRO IOAA+8 IOAA+8 WRT BSP BSP RD	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18730 8BD18740 8BD18750 8BD18770 8BD18770 8BD18770 8BD18790 8BD18800 8BD18820 8BD18840 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18890 8BD18900 8BD18910 8BD18910 8BD18920 8BD18930 8BD18940 8BD18950 8BD18950 8BD18950 8BD18950 8BD18950 8BD18950
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4 086C 00 440003C4	SLA BSC MDX *XXXXXXXXXX * * * *XXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 CM12D CM12B KXXXXXXXXXX TESTI XXXXXXXXXXX 16 DECTR -8 SP7F DECTR UNE DECTR E RT19M TRO IOAA+8 IOAA+8 WRT BSP BSP RD	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18770 8BD18790 8BD18800 8BD18810 8BD18820 8BD18830 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18850 8BD18910 8BD18910 8BD18910 8BD18920 8BD18930 8BD18940 8BD18950 8BD18960 8BD18970 8BD18970 8BD18980
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000683 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440003C4 086C 00 440003C4 086C 00 440003C4	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 -CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR ONE OECTR E RT19M TRO IOAA+8 IOAA+8 WRT BSP BSP RD BSP	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	8BD18690 8BD18710 8BD18720 8BD18730 8BD18740 8BD18750 8BD18770 8BD18770 8BD18770 8BD18790 8BD18890 8BD18810 8BD18820 8BD18830 8BD18840 8BD18850 8BD18850 8BD18850 8BD18850 8BD18890 8BD18990 8BD18990 8BD18990 8BD18990 8BD18990 8BD18990
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600FFF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4 086C 00 440003C4 0870 00 440003C4	SLA BSC MDX MDX *XXXXXXXXXX * * * *XXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	7 -CM12D CM128 XXXXXXXXXX TESTI XXXXXXXXXX 16 OECTR -8 SP7F OECTR ONE OECTR E RT19M TRO IOAA+8 IOAA+8 WRT BSP BSP RD BSP	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD188790 8BD18880 8BD18810 8BD18820 8BD18830 8BD18840 8BD18850 8BD18850 8BD18870 8BD18890 8BD18990 8BD18990 8BD18990 8BD18940 8BD18940 8BD18970 8BD18960 8BD18970 8BD18980 8BD18990 8BD18990 8BD18990
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000683 0858 00 6600+FF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440003C4 086C 00 440003C4 086C 00 440003C4	SLA BSC MDX *XXXXXXXXXX * * * *XXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	T CM12D CM12B KXXXXXXXXXX TESTI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18740 8BD18750 8BD18750 8BD18770 8BD18780 8BD18780 8BD18890 8BD18820 8BD18820 8BD18840 8BD18850 8BD18850 8BD18850 8BD18890 8BD18890 8BD18990 8BD18990 8BD18990 8BD18990 8BD18990 8BD18940 8BD18950 8BD18950 8BD18960 8BD18960 8BD18970 8BD18980 8BD18990 8BD19000 8BD19010
0851 0 1007 0852 0 4810 0853 0 70DA 0854 0 70DD 0856 00 D4000682 0858 00 6600FFF8 085A 00 4400028E 085C 00 C4000683 085E 00 84000684 0860 00 D4000683 0862 0 4804 0863 0 7030 0864 00 C40006E0 0866 00 F6000941 0868 00 D6000941 086A 00 440002D4 086C 00 440003C4 086C 00 440003C4 0870 00 440003C4	SLA BSC MDX *XXXXXXXXXX * * * *XXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	T CM12D CM12B KXXXXXXXXX TESTI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	IS PRINT ONLY 1 ON NO YES XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X SRC SRC SRC SRC	88D18690 8BD18710 8BD18710 8BD18730 8BD18730 8BD18740 8BD18750 8BD18760 8BD18770 8BD18780 8BD188790 8BD18880 8BD18810 8BD18820 8BD18830 8BD18840 8BD18850 8BD18850 8BD18870 8BD18890 8BD18990 8BD18990 8BD18990 8BD18940 8BD18940 8BD18970 8BD18990 8BD18990 8BD18990 8BD18990 8BD18990 8BD18990 8BD18990

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I

2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

0878		1010		SLA		16	CLEAR A REG		88019030
		D4000686		ST(L	MSG4T	SET TRK IN ERROR		8BD19040
		C4000687		LD	L	LNEO	SET LINE O		8BD19050
0870		D021		STC		RT19Q			8BD19060
087E		6B0C		STX	3	RT19J+1	SAVE IX 3		8BD19070
087F		63F8		LDX	3	-8	IX 3 = NUMBER WORDS		8BD19080
		C7000941	₹ T 1 9⊦	1 LD	L3	IOAA+8	GET A DATA WD		8BD19090
0882	00	F40002A3		EOR	L	P7F	IS WD CORRECT		8BD19100
0884	0	4820		BSC		Z			8BD19110
0885	0	7012		MDX		RT19N	NO		8BD19120
0886	00	74010685	R T1 9F	X GM	ι	WDCT.1	INCR WD CT		8BD19130
0888	0	7301		XGM	3	1	DECR IX 3		8BD19140
0889	0	70F6		MDX		RT19H	LOOP		8BD19150
088A	00	6 7 00 0 000	RT19,	LDX	L3	0	RESTORE IX 3		· - - ·
			*				MESTONE IA S		8BD19160 8BD19170
			*			CHECK	FOR ROUTINE COMPLETE	:	88D19180
			*			• • • • • • • • • • • • • • • • • • • •	TOW WO THE COMPLETE	-	88D19190
0880	00	C4000683	RT19K	LD	L	DECTR	GET ODD EVEN CTR		
3880	0	4804		BSC	_	E	IS IT EVEN		8BD19200
088F	0	70CA		MDX		RT19A	NO EVEN		8BD19210
0890	0	7201		MDX	2	1	DECR IX 2		8BD19220
0891	0	70C8		MDX	_	RT19A	CONTINUE RTN		8BD19230
0892	CO	4C0001EA	3 T 1 9L		L	RETRN	ROUTINE COMPLETE		8BD19240
			*		•	NE I KII	KOOTTNE COMPLETE		88019250
			*			ODD_E	VEN CTR IS ODD		8BD19260
						000-6	VEN CIK 15 DDD		8BD19270
0894	00	C40006E0	RT19M	1.0	L	TRO	CET BAD TO CONCTANT		8BD19280
0896		1008		SLA	_	8	GET BAD TR CONSTANT		8BD19290
0897	_	70CE		MDX		RT19C	MOVE TO FIRST CHAR		8BD19300
	•			HUX		KITYC			8BD19310
			*			DATA	IS NOT COORSET		8BD19320
			· ·			DATA	IS NOT CORRECT		8BD19330
0898	00	C40002A3	RT19N			075	CET DITTER		8BD19340
		D40006E2	711314	STO	Ļ	P7F	GET PATTERN		8BD19350
		4400043A		BSI	L	PRPAT	SET FOR PRINT		8BD19360
089E		E001		DC	L	PRINT	PRINT BAD DATA	SRC	8BD19370
089F	-	0001	RT1 90			/E001	ERROR 1		8BD19380
0880		7001	KILAN			/0001	FORM 1		8BD19390
08A1	-	70CE		MDX		RT19P	CONTINUE		8BD19400
		0C0001C2	37100	MDX		RT19D	LOOP ON ERROR		8BD19410
		C4000688	RT 1 9P		L	RDBSW	READ DATA SWS		8BD19420
0844				LD	L	LNE1	SET NOT LINE O		8BD19430
	_	D0F8		STO		RT190			8BD19440
		C40001CB		LD	L	SWO	GET SWS		8BD19450
0849	-	1007		SLA		7			8BD19460
0844		4810		BSC		-	PRINT ONLY FIRST		8BD19470
08 A B		70DA		MDX		RT19F	NO		8BD1 9480
08 A C	U	700D		XGM		RT19J	YES		8BD19490
			* X X X X	XXXXX	XXXX	×× × × × × × × × × × × ×	××××××××××××××××××××	X	8BD19500
			*						8BD19510
			*			TESTI	NG ROUTINE 20		88019520
			*						88D19530
0015	_						*********	X	8BD19540
		6207	RT20		2	7	IX 2 = NO TRACKS		8BD19550
		440002BC	RT200		L	SP80	SET I/O AREA	SRC	8BD19560
		6308		LDX	3	8			8BD19570
		C7000938	RT20A	ΓD	L3	IOA	GET A DATA WD		8BD19580
		F60008FF		E OR	L2	TRKC-1	SET BAD TRACK		9BD19590
		D7000938		STO	L3	IOA	SET IN I/O AREA		8BD19600
0887		73FF		MDX	3	-i	DECR IX 3		8BD19610
088 8	0	70F8		MDX		RT20A	LOOP		8BD19620
			*						8BD19630
08B9	00	440002D4		BSI	L	WRT	GO WRITE	SRC	8BD19640
			*					3	8BD19650
		440003C4		BSI	L	BSP	GO BACKSPACE	SRC	8BD19660
08BD	00	440003C4		BSI			GO BACKSPACE	SRC	
			*	-	-	•		340	88019670 88019680
08BF	00	4400032C	RT20B	BSI	L	RD	GO READ	SRC	8BD19680
		440003C4		BSI			GO BACKSPACE	SRC	88D19690
					_	:	SO DRONG! ACE	3 7 6	8BD19700

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

	•		_		8BD19710
	•	CHE	CK DATA		88019720
08C3 0 63F8	•				8BD19730
08C4 00 C4000684	LD)		IX 3 = NUMBER WDS		8BD19740
08C6 00 D4000685	LD STO	L ONE	SET WD CT = 1		8BD19750
08C8 00 6E000686	STX		CET TRU IN COOR		88019760
08CA 00 C4000687	LD LD		SET TRK IN ERROR		8BD19770
08CC 0 D015	STO		SET LINE O		8BD19780
08CD 00 C7000941	RT20C LD	L3 IDAA+8	GET A DATA WD		8BD19790
08CF 00 F40002D3	EOR		OLI A DATA AD		8BD1 9800
08D1 0 4820	BSC		IS IT CORRECT		8BD19810
08D2 0 7008	MDX	_	NO		88D19820
08D3 00 74010685	RT200 MDX		INCR WD CT		88D19830 8BD19840
08D5 0 7301	MDX		DECR IX 3		8BD19850
08D6 0 70F6	MDX	RT20C	LOOP		8BD1 9860
08D7 0 72FF	RT20E MDX	2 -1	IS RTN COMPLETE		8BD19870
08D8 0 70D5	MDX		NO		8BD19880
08D9 00 4C0001EA	B SC	L RETRN	YES		8BD19890
	*				8BD19900
		DATA	IS INCORRECT		8BD19910
08DB 00 C40002D3	0.73.05 + 0				8BD19920
08DD 00 D40006E2	RT20F LD	L P80	GET PATTERN		8BD19930
08DF 00 440C043A	STO		SET FOR PRINT		8BD19940
08E1 0 E001	851	L PRINT	PRINT BAD DATA	SRC	8BD19950
08E2 0 0001	DC RT200 DC	/E001	ERROR 1		8BD1 9960
08E3 0 7001	MDX	/0001 RT20H	FORM 1		8BD1 9970
08E4 0 70DA	MDX		CONTINUE		8BD19980
08E5 00 0C0001C2	RT20H XID		LOOP ON ERROR		8BD19990
08E7 00 C4000688	LD	L LNE1	READ DATA SWS SET NOT LINE O		8BD20000
08E9 0 DOF8	STO	RT200	SET NOT LINE O		8BD20010
08EA 00 C40001CB	LD	L SWO	GET SWS		8BD20020
08EC 0 1007	SLA	7	0E. 3#3		8BD20030
08ED 0 4810	B SC	-	PRINT ONLY FIRST		8BD20040 8BD20050
08EE 0 70E4	MD X	RT20D	NO		8BD20060
08EF 0 70E7	MDX		YES		8BD20070
	*				8BD20080
	*	CONS	TANTS		8BD20090
0050 0 (010	*				8BD20100
08F0 0 4040 08F1 0 2020	TRKC DC	/4040	BAD TR CNST-TR 1		8BD20110
08F1 0 2020 08F2 0 1010	DC	/2020	2		8BD20120
08F3 0 0808	DC	/1010	3		88020130
08F4 0 0404	DC	/0808	4		8BD20140
08F5 0 0202	DC DC	/0404	5		8BD20150
08F6 0 0101	20	/0202	6		8BD20160
33. 3 3 3131		/0101	7 XXXXXXXXXXXXXXXXXXXX		8BD20170
	*	~~~~~	^^^^	XXX	8BD20180
	*	TEST	ING ROUTINE 21		8BD20190
	*	7631	ING ROUTINE 21		8BD20200
	*XXXXXXXX	XXXXXXXXXXXXX	*****		8BD20210
08F7 00 4400028t	RT21 BSI	L SP7F	SET I/O AREA		88D20220
08F9 0 6308	LDX	3 8	III II O AREA	SRC	8BD20210
08FA 00 C7000938	RT21B LD	L3 IOA	GET A DATA WD		8BD20240 8BD20250
08FC 00 F40007B3	EOR	L TRKB	SET BAD TRACK		8BD20260
08FE 00 D7000938	STO	L3 IOA	SET AS DATA		8BD20270
0900 0 73FF	MDX	3 -1	DECR IX 3		88020280
0901 0 70F8	MDX	RT21B	LOOP		8BD20290
0002 00 //0000	*				88020300
0902 00 440002D4	BSI	L WRT	GD WRITE	SRC	8BD20310
0904 00 4400000	*			-	8BD20320
0904 00 44000304	BSI	L BSP	GO BACKSPACE	SRC	8BD20330
0906 00 440003C4	₽SI •	L BSP	GO BACKSPACE	SRC	8BD20340
0908 00 4400032C		1 00	00.05.5		8BD20350
090A 00 4400032C	RT21G BSI	L RD	GO READ	SRC	8BD20360
270A 00 440003C4	# BSI	L BSP	GO BACKSPACE	SRC	8BD20370
	•				8BD20380

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

	•		CHECK	DATA		
090C 0 63F8	*					88D20390 8BD20400
090D 00 C400			-8	IX 3 = NUMBER WDS		83D20400
090F 00 D400	- · · · · ·	D L	ONE	GET 1		
	•	STO L	WDCT	SET AS WD CT		8BD20420
	.	SLA	16	CLEAR A REG		8BD20430
0912 00 D400			MSG4T	SET TRK IN ERROR		88D20440
0914 00 C400 0916 0 D013	_	.D L		SET LINE O		8BD20450
		T0	RT210			8BD20460
0917 00 C700			I DAA+8	GET A DATA WD		88D20470
0919 00 F400 0918 0 4820	-	OR L	P7F			8BD20480
	U	SC	2	JS IT CORRECT		8BD20490
	(-1)	DX	RT21F	NO		8BD20500
091D 00 7401 091F 0 7301				INCR WD CT		88D20510
		DX 3	1	DECR IX 3		8BD20520
	"1(D X	RT21C	LOOP		8BD20530
0921 00 4000		SC L	RETRN	EXIT		8BD20540
	*					8BD20550
	*		DATA I	S INCORRECT		88D20560
0022 00 0400	*					88D20570
0923 00 C4000			P7F	GET PATTERN		8BD20580
0925 00 D4000				SET FOR PRINT		88020590
0927 00 44000 0929 0 F001	٠.			PRINT BAD DATA	SRC	8BD20600
	DC		/E001	ERROR 1	SKC	8BD20610
	RT21Q DO	-		FORM 1		8BD20620
	_		RT21H	CONTINUE		8BD20630
		DX		LOOP ON ERROR		8BD20640
0920 00 00000			RDBSW	READ DATA SWS		8BD20650
092F 00 C4000			L NE 1	SET NOT LINE O		8BD20660
0931 0 DOF8	ST		RT21Q	TO LINE O		88D20670
0932 00 C4C00			SWO (GET SWS		8BD20680
0934 0 1007	SL	LA	7			8BD20690
0935 0 4810	BS	sc -	- 1	PRINT ONLY FIRST		8BD20700
0936 0 70E6	MD) X (RT21D	NO		8BD20710
0937 0 70E9	MD			YES		8BD20720
0938 0 4267	I DA DC			HORD COUNT		8BD20730
0939 0 0000	IDAA DC	;		I/D AREA		8BD20740
093A 0266	BS	SS 6	14			8BD20750
OBAO 012D	EN		START		0000071	8BD20760
					0802076	8BD20770

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2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST

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CROSS	REFERENCE	LISTING
SYMBOL	- VALUE	REFERENCES
BEGAN	0147	0144
BEGIN	0143	01AE, 01B6, 01D0, 0217
BSP	03C4	0300, 0345, 037C, 03B4, 03CE, 063C, 063E, 0644, 06A2, 06A4,
		06A8,0709,070B,070F,0776,0778,077C,07C1,07C3,07C7,
		0813, 0815, 081B, 086C, 086E, 0872, 08BB, 08BD, 08C1, 0904,
		0906, 0904
BSP IO	U3F4	03D2,03D3,03D4
BSP01	03C5	03F0
BSP02	03CE	03CB, 03DA
BSP03	0300	03CD, 03E4
BSP 04	03DB	03D9
BSP05	03E5	03E3
BSP 06	03E7	03C9
BSP07 CLN	03F1	03EF
CLN 1	0370	0368
CLN2	037A	0204
CLN3	037B 0383	0386
CLN5	0388	0378, 0394, 0395, 0396
CLN6	038C	0391, 0392, 0398
CLN7	038E	038A 0388
CLNB	0393	0382
CMRT	0624	
CMRTB	0666	01D4,01D5,01D6,01D7,01D8,01D9,01DA 0654
CMRTC	064F	0658
CMRTD	0655	0678
CMRTE	065B	
CMRTF	0640	0639,066F
CMRTT	0103	01A6,01EC,0453
CMRTO	0629	065D, 065F
CMRT1	0635	0665
CMRT2	0662	0632
CMRT3	062B	0624
CMRT5	0660	
CMRT6	0646	
CMRT7	0670	066E
CMRT8 CMRT9	0659	0648, 0679
CMR12	066D 07F7	0640,0671
CM12B	0840	01DF, 01E0, 01E1, 01E2, 01E3, 01E4, 01E5
CM12C	0828	0823
CM12D	082E	0831 0853
CM12E	0834	0033
CM12F	0817	0810,0849
CM12Q	0847	0825, 084E
CM120	07FE	0837, 0839
CM121	080C	083F
CM122	083C	0809
CM123	0800	07F8
CM125	083A	
CM126	081D	
CM127	084A	0848
CM128	0832	0826,0854
CODEH CORDS	05DE	0501
CRCA	03C1	0360
CRCSP	073E 074F	0701
CRC 7F		06F1,0766
CRC 7F	02A4 02BB	0290
CRC80	02BB 02D2	0284
DSL	0622	02C6
DSLT	0617	0618,061B,061C,061F
DSW	023A	0386, 0520
		0231,02E3,02E8,0302,0340,0349,035E,0399,03D6,03DB,
DSWCR	0682	250110110

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```
DIWEX
         0681
 EDIT
                     0134,014F,C168,016C,0176,0181,0220,0269,0420
          0106
 EDT
          0132
 FDT1
          0133
                     0137
 EDT 2
          013D
                    0138
          032A
 END
          0200
                     0205
 ERA
          0324
                    0311,0312,0313
 FRRR
          04EE
 FORM
          0482
                    047D
 FORMC
         0446
                    049E, 04A2
 FORM1
          0491
                    0483
 FORM2
         049F
                    0484
 FORM3
         049F
                    0485
 FORM4
         04A3
                    0486
 FOUR
          0329
                    02FF
 FRMC1
                    O4AC
 FRMC2
         0481
                    046F,047C,04C1
 FRMC3
         04CC
                    0408
 FRMC4
         04CE
                    0444,04CB
 FRMC5
                    04E8, 04EA
 FRMC6
         04E4
                    0404
 FRMC7
         04DE
                    043D.04ED
 FRMC8
         04F0
                    043B
 FRMC9
         04EB
                    04DB
 FRST
                    046A
 FRWC
         0487
                    0462
 HEXCD
         05DC
                    0487,05C8,05CF
 HEXCV
         05R4
                    04B5,05D4
 HEXC1
         05BD
                    05BE, 05C7
 HE X C 2
         0500
                    0585
 HEXC3
         0502
                    0587
 HEXWD
         05D6
                    04B3,05BA
 HE X 00
         0507
                    05C3, 05C8, 05C A, 05CC, 05CE
 ILSW
         0238
                    0210,0254
 INTR
                    0234,023F
 JNTR1
         0227
                    0222
 INTR2
         023E
                    0145,0244,0251
 INTR3
         0232
                    0226
 IOA
         0938
                    020A, 0322, 0335, 03BC, 06F7, 06FB, 076C, 0770, 07B7, 07BB,
                    08R1,08B5,08F4,08FE
 LIJAA
         0939
                    0291,0298,029[,029F,02A9,02B0,02B5,02B7,02C0,02C7,
                    02CC, 02CE, 0494, 0635, 0637, 064F, 069C, 069E, 0686, 06E6,
                    06ED, 06F2, 06F4, 06FF, 0703, 0705, 071D, 075B, 0762, 0767,
                    0769,078A,0705,080C,080E,0828,0866,0868,0880,08CD,
 IDARA
         05B2
                    0591,059E,05A0,05AE
 K005
         03A7
                    0393
 K009
         0349
                    0366, 0373
K010
         0348
                    0376
LNEO
         0687
                    064C,0681,071A,0787,07D2,0823,087B,08CA,0914
                   0670,06D7,0735,07A2,07ED,084C,08A4,08E7,092F
LNEI
         0688
LOGC
         0514
                   04C9, 054E
LOGCA
         0557
LOGCB
        0541
                   0558
LOGCO
         0546
                   0524
LOGC1
        051F
                   0545
LOGC2
        0525
                   053E
LOGC3
        0528
                   0527
LOGC4
        0531
                   0530
LOGL 5
        0533
                   052C
LDGC6
        053F
                   0537
LOGC7
        0548
                   051A, 05AC
LOGC8
        054A
                   051B
LUGC9
        0540
                   051C
LOGXO
        047F
                   046E
LOGX1
        0480
                   047B
LOGX2
        0481
                   0478
```

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```
LOGOO
                    0546
 L0601
         058F
                    0547
 L0G02
         05A8
                    0594
10603
         0544
                    0590
10000
         0550
                    0516,0535,0539,0543
                    0520,0525,0520,0538,0530
LDX02
         0551
LOX03
         0552
                    0538,0540
LOX04
         0553
                    052A
 MASKO
         0600
                    0588,05F4
 MASK1
         060F
                    058A, 05F5
MID
         04F0
                    045A, 04E4
 MK O
         01BE
                    0243
         01C0
                    0245
 MOD
         01CD
                    0183,0422
 MSG
                    044D,0518,058F,05F2,0614
         O4F 8
MSGO
         04F9
                    04A9,04B9,04BC,051D
MSG1
         04F4
                    044B,0493,04A1,04A5
MSG2
         04F5
                    0447,0496
MSG3
         04F6
                    0449,0499
MSG4
         04F7
                    044F, 049C
MSG4T
         0686
                    049A,0649,06AF,0718,0785,07D0,0821,0879,08C8,0912
MIST
         015A
OECTR
         0683
                    0626,0620,0630,0658,068B,0693,0697,06C1,07FA,0802,
                    0806, 0834, 0856, 085C, 0860, 088C
ONE
         0684
                    01A0,022D,02FC,036B,0466,05FF,062E,0646,0695,06AA,
                    0712,077F,07CA,0804,081D,085E,0874,08C4,090D
PID
         04EF
                    047F,04B1
PRINT
        043A
                    01AA, 01B2, 01F1, 02F2, 0306, 0316, 0356, 039D, 03AB, 03DF,
                    03EB, 0414, 0457, 04DC, 04E2, 04EB, 066A, 06CF, 072D, 079A,
                   07E 5, 0844, 089C, 08DF, 0927
PRPAT
                    0491,0668,06CE,072B,0798,07E3,0842,089A,08DD,0925
        06E2
PRSP
         0583
                   0517,0557
PRWDC
         0616
                   0464.05F1
PR00
         0559
                   0553
PRO1
         0564
                   0554
PR<sub>02</sub>
         056D
                    0555
PR 0 3
         057A
                    0556
PR 0 4
         0476
                   0475
PR05
         047D
                    0472
PR 1
         0460
                   045D.0470
PR 43
         05EF
                   0400,0608
PR 4 3 1
        05FA
                   05FD
PR432
         060?
                   0605
P7F
         02A3
                   0290,0651,0666,0882,0898,0919,0923
         06E1
                   02A7,06B8,06CC
P8F70
        074F
                   06E5,071F,072A,075A,078C,0797
P80
                   02BE,07D7,07E1,082A,0840,08CF,08DB
        02D3
RAD
        04F2
RD
        032C
                   0354,0642,06A6,070D,077A,07C5,0819,0870,08BF,0908
RDBSW
        0102
                   0163,0195,020D,043F,04C2,04CE,04D5,0672,06D5,0733,
                   07A0, 07EB, 084A, 08A2, 08E5, 092D
RDF
        0352
                   0337,03B3
RDFNC
        03BE
                   032F
RDIOC
        03BC
                   0331,033E,0347,038C
RDSSW
        0104
                   0199
RDTWC
        03BA
                   0333
RDTXO
        0344
                   0365
RD01
        0339
                   0358,0388,0388
RD02
        0356
                   0330
RD03
        035C
                   0354
RD04
        035E
                   0344,034D
RD05
        0399
                   0362,0374
RD06
        03A2
RD07
        03AB
                   0351
RD08
        0380
                   03A1,03AF
RD09
        0384
                   036F,03A5
RDIDS
        03BF
                   0342
RD2DS
        03C0
                   034B
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```
RETRN
                   01E9,0660,06C7,0728,0795,07DF,083A,0892,08D9,0921
 RETR1
         01F1
                   0192,01ED
 RETR2
         01F6
                   01F5
 RETR3
         0203
 RID
         04F1
                   0150,019E,01A2,01A4,01EA,01FF,0209,0210,0451
 RSRT
         0102
                   0155
 RSTRT
         0100
                   J151
 RTN10
         075 R
                   Oldd
 RTN11
         0784
                   OIDE
 RTN19
         0855
                   01E6
 RTN8
         0689
                   0108
 RTN8A
         068F
                   0604,0606
 RTN8B
         0691
                   0689
 RTNAC
         069C
                   06CB
 RTN8D
         06A6
                   06D4
 RTNBE
         06AA
 RTN8F
         06BB
                   06DE
 RTN8H
         0686
                   06BE
 RTNBJ
         06BF
                   0684,06DF
 RTNBK
         06C1
 RTNBL
         06C7
 RTN8M
         0609
                   069A
 RTN8N
         0600
                   O6BA
 RTN8P
         0605
                   0603
 RTNBO
         06D2
                   06B3,06D9
 RTN9
         06E3
                   OIDC
 RTN9A
         06F7
                   06FF
 RTN9B
         070D
                   0732
 RTN9C
         071D
                   0725
 RTN9D
         0722
                   073C
 RTN9E
         0726
                   073D
 RTN9F
         072A
                   0721
 RTN9H
        0733
                   0731
 RTN9J
         06E5
                   06E9
 RTN9K
        06ED
                   06F0
 RTN90
        0730
                   0710,0737
 RTN90
         06E4
                   0727
 RTIOB
        076C
                   0773
RT10C
        078A
                   0792
 RTIOD
        078F
                   07A9
RT10E
        0793
                   OTAA
RT10F
         0797
                   078E
 RT10G
        077A
                   079F
RT10H
         07A0
                   079E
RTIOJ
        075A
                   075E
RT10K
        0762
                   0765
RT10L
         0759
                   0794
RT100
        079D
                   0789, 07A4
RT11A
        07B7
                   078F
RT11B
        0705
                   O7EA
RT11L
        0705
                   07DE
RT11D
        07DB
                   07F4
RT11E
        07DF
                   07F5
RT11F
        07E1
                   O7DA
RT11H
        07EB
                   07E9
RTIIJ
        0200
                   0203
RT11K
        02C7
                   02CA
RT11L
        0786
RT11Q
        07E8
                  07D4,07EF
RT19A
        085A
                  088F,0891
RT19C
        0866
RT19D
        0870
                  08A1
RT19E
        0874
RT19F
        0886
                  OBAB
RT19H
        0880
                  0889
RT19J
        088A
                  087E,08AC
RT19K
        088C
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```
RT19M
         0894
RT19N
         0898
                   0885
 RT19P
         08A2
                   08A0
 RT19Q
         089F
                   087D, 08A6
RT20
         ORAD
                   01E7
RT20A
         0881
                   0888
RT 208
         08BF
                   08E4
RT20C
         08CD
                   08D6
RT20D
         08D3
                   ORFF
RT20E
         08D7
                   ORFF
RT20F
         0808
                   0802
RT20H
         08E5
                   08E3
RT20Q
        08E2
                   08CC, 08E9
RT 200
        08AE
                   0808
RT21
         08F7
                   01E8
RT21B
        08FA
                   0901
RT21C
        0917
                   0920
RT21D
                   3936
RT21E
        0921
                   0937
RT21F
        0923
                   0910
RT21G
        0908
                   092C
RT21H
        092D
                   092B
RT 21Q
        092A
                   0916,0931
RWD
                   0174,018A,031E,040E
         03F6
RWDIO
                   0401,0402,0403
        041C
RWD01
        03F7
                   0419
RWD02
        0405
                   0409,0400
RWD03
        040E
                   03FE,040C
RWD04
        0410
                   03F8
RWD05
        041A
                   0418
R11X0
        07F6
                   0789
SDSW
        023C
                   0227,022A,022B,022C,022F,0230
SEL DR
        03C2
SENSE
        0580
SYDSW
        041E
                   0170, 0186, 02DC, 0339, 037E, 03C5, 03F7, 0405, 0434
SNDS1
        0420
                   0430
SND S2
        0429
                   0420
SNDS3
        0432
                   041F
SNS
        0436
                   0424,0425,0428
                   05EF, 05F0, 05F6, 05FA, 05FE, 0601, 0602
SNSPR
        060A
SYSV
                   0304,0398,03DD,03E9,0412,0429,042D,042E,0431,049F
        0438
SP7F
        028F
                   02A1,0629,085A,08F7
SP7F0
        0291
                   0294
SP7F1
        0298
                   029B
SP8F
                   0289,068F
SP8F0
        02A9
                   02AC
SP8F1
        0280
                   02B3
5280
        02BC
                   02D0,07B4,07FE,08AE
START
        012D
                   OBAO
                   0468,0460,0479
STWC
        04AD
SUPR
        0163
                   01AF,0215
SUPRO
        0191
                  0180
SUP & 1
        0195
                   0190,01EF,0201,020B
SUPR2
        01A2
SUPR3
        0176
                  0167,0168,0187
SUPR4
        01A8
                  0173
SUPR5
        OIAF
SUPR6
                   0189
        01B0
SUPR7
        01B7
SUPR8
        018C
                   0179,0178,0180
SVEXT
        027C
                   0276
SVINT
        0242
                   0224,023E,0250,0281
SVINO
        025C
                   0272,027B
SVINI
        025E
                   0266
SVIN2
        0267
                   026E
SVIN3
        0254
                   024D
SVID
        028C
                  0247,0262,0263,0270
SVO
        0283
                  0270
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 2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST
 SV1
          0284
                    025C
 SV2
          0285
                    025A
 SV3
          0286
                    0277
  SV4
          0287
                    0259,025E,0267,026C,026F,027A
 SV5
          0288
                    0250,0260,0264
 SV6
          0289
                    0258,0261,0278
 SV7
          0284
                    0256,0273
 SMO
          OICE
                    0164,017C,0196,01C2,0212,0441,04C4,04D0,04D7,0674,
                    06DA, 0738, 0745, 07F0, 084F, 08A7, 08EA, 0932
 SWI
          GICC
                    019A, 01C4
 TAAQ
         0236
                    0218,0232
 TAILS
         023B
 TAPEO
                    0158,016E,013C,01A9,01F7,01F9,0228,02D5,030F,032D,
          0188
                    03D0,03FF,0619
 TAPEL
         01B9
                    0150,0184,0191,0181,0203
 TASS
         0233
                    021A
 TERM
         0513
                    013F,0521,0592,07CE
 TERR
          0240
                    021E
 TPINT
         023F
                    014D
 TRKA
         0746
                    06F9
 TRKB
         07B3
                    08FC
 TRKC
         08F0
                    0883
 TRKD
         O7AR
                    076E
 TRKMS
         0750
                    0716,0783
 TRO
          06E0
                    0698,0609,0864,0894
 TR1
         067A
                    0633,0662,080A,083C
 TR2
         067B
 TR3
         067C
 TR4
         067D
 TR5
         067E
 TR6
         067F
 TR7
         0680
 UNIT
         04F3
                    045E,0480
 UNMKO
         OIBA
                    0161,027D
 UNMK1
         01BC
                    0162.027F
 UNMK3
         0610
                   05A8,0606
 UNMK4
         0612
                   05AA, 0607
 WAITA
         0404
                   300A
 WAITB
         04E9
                   300B
 WAITC
         0587
                   300C
 WAITD
                   300D
 WAITE
         0241
                   300E
 WAITE
         0380
                   300F
 WAITI
         0142
                   3001
 WAIT2
         0159
                   3002
 WAIT3
                   3003
 WAIT4
         02F2
                   3004
 WAIT5
        02FA
                   3005
 WAIT6
         0314
                   3006
 WAIT7
         033F
                   3007
 WAIT8
         0348
                   3008
 WAIT9
        0305
                   3009
 WDCT
        0685
                   0497,0648,0655,06AC;06BB,0714,0722,0781,078F,07CC,
                   07DB, 081F, 082E, 0876, 0886, 08C6, 08D3, 090F, 091D
 WRDSW
        0583
                   058D,059B,05A1,05A5
                   015F, 02ED, 02F9, 02FB, 02FE, 030C, 031C, 034E, 0363, 0369,
 WRERP
        0328
                   036D, 0370, 0378, 03A3, 03B1, 04A3
WRIOC 0322
                   02D8,02E1
WRITE
        05AE
                   0596
WRPR
        0614
                   05F9
WR T
         02D4
                  02F0,063A,06A0,0707,0774,07BF,0811,086A,08B9,0902
WRTCC
        0326
                  0207
WRTSW
        0327
                  02EA
WRTWC
        032B
                  0209
WRT01
        0205
                  0315,0320
WRT02
        02DC
                  02F 7
WRT03
        02F0
                  0310/
WRT04
        02F2
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM 2400 CYCLIC REDUNDANCY CHECK FUNCTION TEST WRT05 02F8 02F6,030A,035C,03E5,03F1,041A WRT06 02FB 02EC WRT07 030B WRT08 030D 0301 WRT09 0316 02EF WRT10 0318 031A WRT11 031E 02E7 XIOSN 0597 059A XIOWR 0596 05A3

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1. PURPOSE

TO ASSIST THE CE TO PUNCH THE NECESSARY EDIT CARDS AND/OR PAPER TAPE FOR THE 1800 DIAGNOSTIC FUNCTION TESTS.

2. REQUIREMENTS

2.1 PROGRAM

- A. 4K EDIT UTILITY (PIO 08C2) IF ONLY A 4K SYSTEM B. BK EDIT UTILITY (PID 08C3) IF GREATER THAN 4K
- C. DP 1/O EDIT SKELETONS (PID 08C4) FOR EDITING OF MONITOR AND DP 1/O PROGRAMS
- D. P 1/O AND NON-MONITOR EDIT SKELETONS (PID 08C5) FOR PROCESS 1/O AND NON-MONITOR PROGRAMS REQUIRING EDIT

2.2 EQUIPMENT

- A. 1442 OR 1054/55
- B. 1816
- C. 4K OR GREATER

3. USE PROCEDURE PROGRAM LOADING

3.1 EITHER EDIT UTILITY PROGRAM (4K PID 08C2 OR 8K PID 08C3) FOLLOWED BY EITHER OR BOTH EDIT SKELETONS (DP 1/0 PID 08C4 OR P 1/0 NON-MONITOR OR PID 08C5) ARE LOADED BY THE RELOCATABLE LOADER PID 08B1 FOR CARDS SECTION 3.2. IF CARDS ARE TO BE PUNCHED, PLACE BLANK CARDS BEHIND THE DECK.

3.2 SKELETON IDENTIFICATION

EACH DECK OF SKELETONS CONTAINS SEVERAL SMALLER GROUPS. EACH SMALL GROUP HAS THE FOLLOWING IDENTIFICATION,

COLUMN

73-74

PID OF THE SKELETON GROUP,

C4 - DP I/O FDII SKELETONS

C5 - P I/O NOW-MONITOR EDIT SKELETONS

75-76

PID FOR THE PROGRAM TO BE EDITED.

SKELETON SEQUENCE NUMBER OF THE PID

101

T8-80

CARD SEQUENCE WITHIN EACH SKELETON

COL. 77.

MOTE - FOR EACH PID TO BE EDITED, THERE WILL BE A MINIMUM OF TWO SKELETONS AND A MAXIMUM OF TEN SKELFTONS. ALL SKELETONS FOR ONE PID WILL BE REFERRED TO AS A SET OF SKELETONS.

SINCE ONLY ONE PROGRAM MAY BE EDITED EACH PASS ONLY ONE SET OF SKELETONS IS REQUIRED TO BE LOADED WITH EITHER EDIT UTILITY CONTROL PROGRAM (PID OBC2 OR OBC3). HOWEVER ALL SKELETONS MAY BE PLACED AFTER FITHER EDIT CONTROL AND THE PROGRAM WILL OPERATE PROPERLY.

IF LOADING FROM PAPER TAPE EACH SET OF SKELETONS IS SEPARATED BY AN IDENTIFICATION LEADER. THE TAPE MUST BE MANUALLY POSITIONED TO THE DELETE FIELD AHEAD OF THE PROPER SET OF SKELETONS BEFORE ENTERING THE PID TO BE EDITED.

EACH SET OF SKELETONS WILL BE PRECEEDED BY THE FOLLOWING IDENTI-

*R PID OBCX-Z SKELTONS FOR YY

Z = VERSION X = 4 OR 5 YY = PID FOR THE PROGRAM TO BE EDITED.

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EDIT UTILITY CONTROL FOR PIDS C2, C3, C4, AND C5

3.3 PROGRAM OPERATION

SET IN THE DATA ENTRY SWITCHES TO SELECT THE DESIRED EDIT OUTPUT AS FOLLOWS.

CARCS ONLY - /0000 PAPER TAPE ONLY- /8000 CARDS AND TAPE - /4000

A MESSAGE WILL BE PRINTED ON THE 1816 AFTER CORRECT LOADING REQUESTING THE PID OF THE PROGRAM TO BE EDITED. THE PROGRAM WILL THEN READ CARDS LOOKING FOR A SKELETON WITH THE PID OF THE PROGRAM TO BE EDITED. WHEN THIS IS FOUND THE PROGRAM WILL ASK A SERIES OF QUESTIONS VIA THE 1816 AND THE CE MUST RESPOND TO EACH.

AFTER EACH RESPONSE THE END OF FIELD (EDF) KEY MUST BE DEPRESSED. WHEN MAKING MULTIPLE ENTRIES A COMMA MUST BE TYPED AFTER EACH GROUP AND EOF AFTER THE LAST ENTRY. IN CASE OF AN ERROR OR CORRECTIONS SEE SECTION 3.7.

3.4 PROGRAM TERMINATION

A MESSAGE WILL BE PRINTED TO INDICATE ALL NECESSARY DATA HAS BEEN RECEIVED AND THE EDIT INFORMATION WILL BE PUNCHED VIA THE METHOD SELECTED IN SECTION 3.3. THE PROGRAM THEN LISTS ALL THE EDIT INFORMATION SO A RECORD MAY BE MAINTAINED. A MESSAGE AND A PROGRAM WAIT TERMINATES THE PROGRAM.

3.5 RERUN OR RESTART PROCEDURE

FOR EITHER RERUN OR RESTART PLACE THE DESIRED SKELETON (TO SELECT A SKELETON SEE 3.2) IN THE READER AND PUSH START. A REQUEST FOR PID MESSAGE WILL INDICATE A SUCCESSFUL RETRY. IF THIS PROCEDURE FAILS, SEE SECTION 3.1 PROGRAM LOADING.

- AFTER THE READER IS READY PRESS START.
- AFTER THE READER IS READY PRESS STUP, RESET, AND START.

3.6 PROGRAM WAITS

PROGRAM WAITS ARE IDENTIFIED BY THE B AND I REGISTER AND ARE FOUND AT THE BEGINNING OF THE LISTING. THE FOLLOWING IS AN EXAMPLE.

B-REG I-REG WAITS COMMENTS 300F Oled DC WAITF+1 IN THIS AREA IS A DESCRIPTION OF THE ABOVE WAIT.

> PROG ID 08C2-* PAGE

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3.7 ERROR PROCEDURE

ERRORS WILL FALL INTO TWO TYPES.

REPEAT FIELD

AN ERROR MESSAGE INDICATES A PROGRAM FOUND ERROR BECAUSE OF INCORRECT FORMAT OR THE ERASE FIELD KEY (ER FLD) HAS BEEN DEPRESSED. ALL THE DATA ENTERED SINCE THE LAST COMMA HAS BEEN ERASED. THE LINE WITH THE ERROR WILL CONTAIN THREE ASTERISKS.

REPEAT CHARACTER

IF THE CE WISHES TO CORRECT THE LAST CHARACTER TYPED HE WILL PRESS ERASE CHARACTER KEY (ER CHR). THE TYPEWRITER WILL BACKSPACE AND THE CORRECT CHARACTER WILL BE TYPED OVER THE ERROR CHARACTER. IF AN UVERPRINT IS NOT DESIRABLE, MANUALLY LINE FEED BEFORE TYPING THE CORRECT CHARACTER.

4. PRINTOUTS

4.1 STATUS MESSAGES BEGIN WITH AN A AND WILL TELL OF SOME CONDITION.

MID PROG MESSAGE

A001 CNTRL EDIT CARD LIST

> ALL NECESSARY DATA HAS BEEN ENTERED AND THE INFORMATION WILL BE PUNCHED AND LISTED.

A002 CNTRL END OF PRG

> THE PROGRAM IS FINISHED FOR THE PID SELECTED. IF ANOTHER PID IS TO BE SELECTED SEE SECTION 3.5.

4.2 COMMAND MESSAGES BEGIN WITH A C AND REQUESTS ACTION BY THE CE FOR THE CONTINUATION OF THE PROGRAM.

THE LIST OF CHARACTER AND MEANING THAT WILL BE FOUND IN COMMAND MESSAGES.

VVVV - A DEVICE, SUCH AS 1442, CONSOLE INTERRUPT, OR MONITOR OUTPUT. IT WOULD INCLUDE FIRST OR SECOND DEVICE. - MAG TAPE DRIVE O OR 1.

- PID OF PROGRAM BEING EDITED.

ZZ - CARD NUMBER

MID PROGRAM MESSAGE

ENTER 2 DIGIT PID TO BE EDITED.

ENTER THE PID OF THE PROGRAM THAT IS TO BE EDITED.

COO1 PID XX-CD ZZ ENTER 2 DIGIT DECIMAL INTERPT LVL FOR VVVV.

COO2 PID XX-CD OO ENTER 2 DIGIT DECIMAL ILSW BIT FOR VVVV.

COO3 PID XX-CD OO ENTER 1 DIGIT DECIMAL CH FOR VVVV.

COO4 PID XX-CD OO ENTER NUMBER OF VVVV ON SYSTEM, 1 DIGIT.

COOS PID XX-CD DO DOES THIS SYSTEM HAVE 2 VVVV-TYPE Y OR N.

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CONSTANT ENTERED

COO6 PID XX-CD OO ARE ADKS REFERENCE CHANGES DESIRED-TYPE Y OR N.

IF THE ADDRESSES NORMALLY USED BY THE PROGRAM,
ARE KNOWN TO BE BAD, ANSWER Y.

COO7 PID XX-CD OO ENTER 1 DIGIT DECIMAL FLD NUMBER TO BE CHANGED FOLLOWED BY 3 DIGIT DECIMAL ADRS DESIRED-1-8 ENTRIES IN FOLLOWING FORMAT D DDD.

COOR PID XX-CD OO ENTER 4 DIGIT HEX TIMER BASE FOR INT TIMER A.

IN MILLISEC.	IN HEX
128.000	
64.000	0001
32.000	0002
16.000	0004
8.000	0007
4.000	000F
2.000	001B
- -	0036
1.000	006B
•500⁻	0006
•250	
•125	Olab
	0356

COO9 PID XX-CD OO ENTER AI MODEL-TYPE 1 OR 2.

TIME BASE

OF TIMER A

COOA PID XX-CD 01 ENTER 5 DIGIT DECIMAL CYCLE COUNT.

THIS COUNT DETERMINES THE NUMBER OF TIMES EACH SPECIFIED MULTIPLEX ADDRESS IS READ AND CONVERTED. THE COUNT MAY BE ANY NUMBER FROM 00001 TO 32000.

COOB PID XX-CD ZZ SHOULD FIRST RDING BE PREC VOLT-TYPE Y, OR N.

IF IT IS DESIRED TO ENTER PRECISION VOLTAGES TYPE N. IF Y IS TYPED THE AI PROGRAM WILL USE THE FIRST ENTRY RECEIVED AS THE PRECISION VOLTAGE.

COOC PID XX-CD ZZ RELOAD TO CORRECT THIS ERROR OR PRESS START TO IGNORE.

THIS MESSAGE OCCURS ONLY ON A 4K SYSTEM. IF IGNORED THE ERROR WILL BE PUNCHED AND LISTED AT THE COMPLETION OF THE PROGRAM. THE ERRORS THEN MAY BE MANUALLY CORRECTED.

COOD PID XX-CD ZZ IS EXT SYNC DESIRED-TYPE Y OR N.

COOE PID XX-CD OO IS IT DESIRED TO CHANGE THE DLY CONSTANT
- TYPE Y OR N.

IF A DELAY OF OTHER THAN THE STANDARD IS DESIRED, TYPE Y.

COOF PID XX-CD OO ENTER 2 DIGIT HEX DELAY CONSTANT.

CO10 PID XX-CD 00 IS MEMORY SPEED FCR THIS SYS 2 MICRSEC-TYPE Y OR N.

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CO11 PID XX-CD OO ENTER 2 DIGIT DECIMAL AREA CODE FOR VVVV. CO12 PID XX-CD OO DOES THIS SYSTEM HAVE A VVVV-TYPE Y DR N. CO13 PID XX-CD OO IS DRIVE W A 9 TRK DRIVE-TYPE Y OR No. CO14 PID 01-CD 02 ENTER DEVICE INFO IN THE FOLLOWING FORMAT. 1-40 DEVICES - SPACE BETWEEN ENTRIES. IL ILSW CH AC MOD. DD DD H DD HH. D - DECIMAL CHARACTER. H - HEXADECIMAL CHARACTER-ENTER 0-8 OR F FOR CHANNEL. ONE LINE OF INFORMATION IS ENTERED FOR EACH DEVICE ON THE SYSTEM. CO15 PID OB-CD O1 IS IT DESIRED TO CHANGE WD CTS-TYPE Y OR No. IF WORD COUNTS OTHER THAN THOSE NORMALLY USED BY THE 2400 IS PROGRAM ARE DESIRED. TYPE Y. CO16 PID OB-CD O1 ENTER REC TO CHANGE AND WD CT DESIRED IN FOLLOWING FORMAT D DDDD, 1 TO 8 LINES OF ENTRIES MAY BE MADE. THE FIRST DIGIT IS THE RECORD NUMBER TO CHANGE (1-8) AND THE FOUR DIGIT ENTRY IS THE DESIRED DECIMAL WORD COUNT (0001-1000). CO17 PID 21-CD 00 IS COMPARATOR FEATURE INSTALLED-TYPE Y OR N. CO18 PID 21-CD OA IS OVERLAP CHECK DESIRED-TYPE Y OR No. CO19 PID 21-CD 1B ENTER 3 DIGIT DECIMAL WD CT 1-100. THIS VALUE (001-100) WILL SPECIFY THE NUMBER OF MULTIPLEX ADDRESSES TO BE USED FROM THE ALIAT TABLE. A COUNT OF ONE MUST BE ADDED TO THE WORD COUNT FOR EACH TIME CHAINING IS SPECIFIED. CO1A PID 21-CD 1C IS OVERLAP CARD INSTALLED-TYPE Y OR No. COIB PID 21-CD 1D SHOULD LIMIT WDS BE HONORED-TYPE Y OR No. COIC PID XX-CD 04 ENTER 2 DIGIT DECIMAL RESOLUTION. TYPE EITHER, 08,11, OR 14. COID NOT USED COLE NOT USED

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NOTE

COIF PID XX-CD 06 ENTER DECIMAL ADDRESSES.

TYPE THE COMMA AFTER THE ADDRESS (SEE LINE 3)
IF CHAINING IS DESIRED, TYPE 'C' ON THE NEXT # LINE AFTER THE ADDRESS. (SEE LINE 2) A 1 IN THE HIGH ORDER POSITION OF THE MPX ADDRESS INDICATES A SOLID STATE POINT. PRESS THE EOF KEY AFTER THE LAST LINE.

ADDR 10XXX L, (SOLID STATE ADDR. THAT HAS LIMIT WORD) CHAIN TO NEXT ADDRESS) 10xxx. I SOLID STATE ADDR. WITH NO LIMIT WORD) (CHAIN TO NEXT ADDRESS) 10XXX (PRESS EOF (SOLID STATE ADDR. WITH NO KFY) LIMIT WORD AND NO CHAINING)

CO20 PID 21-CD 10 ARE LMT CK NDS DESIRED-TYPE Y OR N.

CO21 PID 21-CD 10 ENTER LMT WD DATA FOR ADR.

THE INPUT MUST FOLLOW THIS FORMAT. THERE WILL BE ONE CO21 MESSAGE FOR EACH MPX ADDRESS THAT IS TO BE LIMIT CHECKED.

RANGE PREC VOLT LIMIT WORD XXX YXXX.XXXX +XXX -XXX (PRESS EOF KEY) NOTE

'Y' IS THE SIGN OF THE PREC VOLT VALUE, IT MUST BE EITHER *+* OR *-*.

CO22 PID XX-CD ZZ ENTER DECIMAL ADDRESS AND RANGE.

THE INPUT MUST FOLLOW THIS FORMAT. FROM 1-5 LINES MAY BE ENTERED. A 1 IN THE HIGH ORDER POSITION OF THE MPX ADDRESS INDICATES A SOLID STATE POINT. PRESS THE EOF KEY AFTER THE LAST LINE.

MPX		RANGE TABLE
ADDR RANGE CONSTANT	RANGE	CONSTANT TO ENTER
XXXXX XXX.	500 MV	500
XXXXX XXX,	200 MV	200
XXXXX XXX,	100 MV	100
XXXXX XXX,	50 MV	050
XXXXX XXX	20 MV	020
(PRESS EOF KEY)	10 MV	010
	5 VOLTS	005

CO23 PID XX-CD ZZ ENTER DECIMAL ADDRESS, RANGE AND PREC VOLT.

THE INPUT MUST FOLLOW THIS FORMAT. FROM 1-5 LINES MAY BE ENTERED. SEF MESSAGE CO22 FOR RANGE TABLE. A 1 IN THE HIGH ORDER POSITION OF THE MPX ADDRESS INDICATES A SOLID STATE POINT. PRESS THE EOF KEY AFTER THE LAST LINE.

XXXXX XXX YXXX.XXXXX. 'Y' IS THE SIGN OF XXXXX XXX YXXX.XXXXX, THE PREC VOLT VALUE. IT MUST BE EITHER XXXXX XXX YXXX.XXXXX. XXXXX XXX YXXX.XXXXX, 1+1 OR 1-1. XXXXX YXX YXXX.XXXXX. (PRESS EDF KEY) CO24 PID 22-CD 06 ENTER DECIMAL ADDRESS AND WD CTS FOR THE AIIAT TBL.

> EACH MPX ADDRESS IS FOLLOWED BY A WORD COUNT TO DETERMINE THE LENGTH OF THE SEQUENTIAL TABLE. A MAXIMUM OF FIVE SEQUENTIAL TABLES MAY BE CHAINED TOGETHER TO A TOTAL WURD COUNT OF 150.

> > THE INPUT MUST FOLLOW THIS FORMAT. FROM 1-5 LINES MAY BE ENTERED. A 1 IN THE HIGH ORDER POSIT. ON OF THE MPX ADDRESS INDICATES A SULID STATE POINT. PRESS THE EOF KEY AFTER THE LAST LINE.

ADDR WD CT XXXXX XXX. XXXXX XXX, XXXXX XXX. XXXXX XXX, XXXXX XXX (PRESS EOF KEY)

ADDR RANGE PREC VOLT VALUE

CO25 PID 23-CDS 2,4,5 ENTER DECIMAL ADR, RESOL AND RANGE.

THE INPUT MUST FOLLOW THIS FORMAT. FROM 1-5 LINES MAY BE ENTERED. SEE MESSAGE CO22 FOR RANGE TABLE A 1 IN THE HIGH ORDER POSITION OF MPX ADDRESS INDICATES A SOLID STATE POINT. PRESS THE EOF KEY AFTER THE LAST LINE. A 1 IN THE HIGH ORDER POSITION OF THE MPX ADDR INDICATES A SOLID STATE POINT. PRESS THE EOF AFTER THE LAST LINE.

ADDR RES RANGE XXXXX XX XXX. XXXXX XX XXX. XXXXX XX XXX, XXXXX XX XXX. XXXXX XX XXX (PRESS EOF KEY)

CO26 PID 23-CDS 2-5 ENTER DECIMAL ADR, RESOL, RANGE, PREC VOLT.

THE INPUT MUST FOLLOW THIS FORMAT. FROM 1-5 LINES MAY BE ENTERED. SEE MESSAGE CO22 FOR RANGE TABLE. A 1 IN THE HIGH ORDER POSITION OF THE MPX ADDRESS INDICATES A SOLID STATE POINT. PRESS THE EOF KEY AFTER THE LAST LINE.

ADDR RES RANGE PREC VOLT VALUE NOTE XXXXX XX XXX YXXX.XXXX. 'Y' IS THE SIGN XXXXX XX XXX YXXX.XXXXX, OF THE PREC VOLT XXXXX XX XXX YXXX.XXXXX, VALUE. IT MUST XXXXX XX XXX YXXX.XXXXX. BE EITHER 1+1 XXXXX XX XXX YXXX.XXXXX (PRESS EDF KEY) OR *-*

CO27 PID 23-CD 06 IS RANDOM MODE DESIRED-TYPE Y OR N.

CO28 PID 23-CD OB ENTER 1 DIGIT WD COUNT FROM 1 TO 5.

A NUMBER FROM 1-5 IS ENTERED TO INDICATE THE NUMBER OF MULTIPLEX ADDRESSES IN THE AIMPX TABLE TO BE USED.

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CO29 PID 24-CD 00 ENTER 2 DIGIT DECIMAL NUMBER OF DIGITAL INPUT GROUPS ON THE SYSTEM.

(01-24)

CO2A PID 25-CD 00 ENTER 3 DIGIT DECIMAL NUMBER OF HIGHEST DIGITAL INPUT ADRS AVAILABLE ON THIS SYSTEM.

(064-127)

CO2D PID 25-CD 00 ARE PISW ENTRIES DESIRED-TYPE Y OR No.

CO2C PID 25-CD 00 ENTER DESIRED IL ILSW FOR PISMS-1 TO 24 ENTRIES IN FOLLOWING FORMAT DD DD..

CO2D PID 86-CD 00 ENTER 2 DIGIT HEX MODIFIER FOR 2ND 1442.

COZE PID B6-CD OO IS MAG TAPE DR A 2402-TYPE Y OR N.

CO2F PID 89-CD 00 ENTER 1 DIGIT DECIMAL MODEL OF DRIVE W-TYPE 1, 2 OR 3.

CO30 PID BD-CD OO NO DR HAS BEEN EDITED AS A 9 TRK DRIVE-THIS PROG THEREFORE IS ILLEGAL TO RUN ON THIS SYSTEM-DO YOU DESIRE TO CHANGE ENTRIES-TYPE Y OR N.

CO31 PID BE-CD OO IS A WORD COUNT OTHER THAN 321 DESIR-D-TYPE Y OR N.

CO32 PID BE-CD OO ENTER 4 DIGIT DECIMAL WORD COUNT.

CO33 PID BE-CD OU THE WORD COUNT ENTERED WILL FORCE DSW ERRORS DURING THE PROGRAM RUN-IS THIS DESIRED-TYPE

CO34 PID BE-CD OO IS A PATTERN OTHER THAN FFFF DESIRED-TYPE Y OR No.

CO35 PID BE-CD OO ENTER 4 DIGIT HEX PATTERN DESIRED.

CO36 PID 06-CD 00 IS THE ABOVE ID NUMBER FOR VVVV-TYPE Y OR No.

CO37 PID 06-CD 00 ENTER 1 DIGIT TYPEHRITER ID NUMBER 1-8.

CO38 PID OA-CD OO DOES 1443 HAVE 120 PRINT POSITIONS-TYPE Y OR No.

4.3 ERROR MESSAGES WILL BEGIN WITH AN E AND INDICATE A FAILURE OR AN INCORRECT ENTRY. FOR ERROR CORRECTION SEE SECTION 3.7.

MID MESSAGE

E001 LINE CANCELLED.

> ALL THE DATA ENTERED HAS BEEN ERASED FOR THE LAST ENTRY UNLESS MULTIPLE ENTRIES AND THEN IT WILL BE ERASED TO THE LAST COMMA. THE LINE WITH THE ERROR WILL CONTAIN THREE ASTERISKS.

E002 CNTRL ENTRY TOO LARGE.

> THE DATA ENTERED WAS LARGER THAN THE LIMITS FOR A GIVEN CONDITION. THE QUESTION WILL BE REPEATED.

ILLEGAL ENTRY. THE DATA ENTERED WAS NOT REQUESTED. SOMETHING OTHER THAN Y DR N ON TYPE Y OR N. OTHER THAN 0-9 ON DECIMAL ENTRY. OR OTHER THAN 0-9 A-F ON HEX ENTRY.

E004 CNTRL FORMAT ERROR.

> THE DATA ENTERED WAS NOT IN THE PROPER FORMAT. THE QUESTION WILL BE REPEATED.

E005 CNIRL 1442 ERROR.

THE 1442 WAS NOT READY OR AN ERROR WAS DETECTED.

E006 PID XX-CD ZZ 2 OR MORE ENTRIES ARE IDENTICAL.

EOO7 PID XX-CD ZZ ENTRY TOO LARGE OR 0000.

EOOB PID XX-CD OO ADRS WAS BETWEEN 90 AND 110.

E009 PID XX-CD 00 NUMBER OF DEVICES WAS GREATER THAN 3.

EOOA PID XX-CD ZZ ADRS IS TOO GREAT.

EOOB PID XX-CD OO NUMBER OF DEVICES WAS OOOO.

EOOC PID XX-CD OO ILLEGAL TIMER CONSTANT.

EOOD PID XX-CD OO ILLEGAL MODEL.

EOOE PID XX-CD ZZ CYCLE COUNT OF 0000.

EOOF PID XX-CD ZZ AREA CODE WAS TOO LARGE.

E010 PID XX-CD ZZ IMPROPER NUMBER OF WDS.

TOO MANY LINES OF DATA OR TOO MANY OR TOO FEW CHARACTERS PER LINE WERE ENTERED.

EC11 PID XX-CD ZZ TOO MANY WORDS ON ONE CARD.

THIS PRINTOUT WILL OCCUR ONLY IF A COMPARE INSTRUCTION IS FAILING TO SKIP.

E012 PID OB-CD CO TOO LARGE A WD CT-MAX IS 1000.

E013

NOT USED NOT USED

E014

E015 NOT USED

E016 PID 21-CD 00 HIGH VALUE LESS THAN LOW.

THE HIGH PRIORITY CHANNEL ENTERED IS GREATER THAN THE LOW.

E017 PID 21-CD 18 ILLEGAL WD CT.

WORD COUNT ENTERED WAS ZERO OR GREATER THAN 100

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5. COMMENTS

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EO18 PID 21-CD 06 MORE THAN 2 RLY PTS.

MORE THAN 2 RELAY POINTS WERE ENTERED.

E019 PID 21-CD 06 MOD 2 AND MORE THAN 1 RLY PT.

EO1A PID 21-CD 06 RLY PT IN LAST ADRS-AIIAT TBL.

EO1B PID 21-CD 06 LESS THAN 95 SS PTS BETWEEN RLY PT.

EOIC PID 21-CD C6 WD CT IS GREATER THAN NUMBER OF ALIAT ENTRIES. EOID PID 21-CD 10 ENTRIES DO NOT MATCH.

> SCANNED THE ATTAT TABLE WITHOUT FINDING AN ADDRESS THAT WAS SPECIFIED IN THE AIMPX TABLE. EITHER THE ADDRESS IS MISSING OR THE ADDRESSES ARE NOT IN THE SAME SEQUENCE.

EDIE PID 21-CD 10 LMT CK REQ WRONG.

- 1. LIMIT WORDS WERE ENTERED BUT COMPARATOR WAS NOT INSTALLED.
- LIMIT WORDS WERE ENTERED BUT OPERATOR TYPED N IN REPLY TO MESSAGE CO20.

IN BOTH CASES THE PROGRAM PUTS ZEROS IN THE LIMIT WORD TABLE AND CONTINUES.

EOIF PID 21-CD 10 ATTEMPTED TO LMT CK RLY ADR IN OVERLAP.

E020 NOT USED

E021 PID 22-CD 2-6 FOUND NO MATCH OF ADR AND AIIAT ENTRIES. CO27 PID 23-CD 06 IS RANDOM MODE DESIRED-TYPE Y OR N.

CO28 PID 23-CD 08 ENTER 1 DIGIT WD COUNT FROM 1 TO 5.

THE WORD COUNT (AIWC) WENT TO ZERO BEFORE ALL OF THE AIMPX ADDRESS WERE FOUND IN THE ATTAT TABLE.

E022 NOT USED

E023 PID 22-CD 06 WD CT GREATER THAN 150.

E024 PID 22-CD 06 WD CTS IN AIIAT TBL ARE ALL 0000.

E025 PID 23-CD 08 ENTRY WAS 0000 OR GREATER THAN 5.

E026 PID 23-CD 2-8 WD CT IS GREATER THAN NUMBER OF AIMPX ENTRIES.

E027 PID 24-CD '00 NUMBER OF GROUPS ENTERED WAS TOO GREAT.

CANNOT BE MORE THAN 64 GROUPS.

E028 PID 25-CD 00 ADRS ENTERED WAS GREATER THAN 127.

E029 NOT USED

E02A PID 25-CD 00 ADRS ENTERED WAS LESS THAN 64.

EO2B PID B6-CD OO ILLEGAL MODIFIER.

EO2C PID B9-CD OO ENTRY WAS GREATER THAN 3.

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THE SKELETONS FOR THE PID REQUESTED MUST BE LOADED BEHIND THE PROGRAM. (SEE SECTION 3.2 FOR SKELETON SELECTION) IF THE SELECTED SKELETON IS NOT FOUND THE PROGRAM WILL HANG UP IN THE LOADER AFTER SEARCHING ALL AVAILABLE SKELETONS. WHEN THE FIRST SKELETON OF THE SELECTED PID IS FOUND IT IS LOADED INTO MEMORY. IF THIS IS THE 4K EDIT CONTROL PROGRAM (PID OBC2) THE SKELETONS WILL BE BROUGHT INTO MEMORY ONE AT TIME, EACH ASKING ITS QUESTIONS. THE 8K EDIT CONTROL PROGRAM (PID 08C3) WILL BRING IN ALL SKELETONS BELONGING TO THE SELECTED PID.

AFTER ALL THE NECESSARY DATA FOR THE SELECTED PID HAS BEEN RECEIVED THE CARD READER WILL PASS ANY PUNCHED CARDS AND WHEN BLANK CARDS ARE FOUND BEGIN PUNCHING THE EDIT CARDS. IF THE PAPER TAPE VERSION IS USED THE PUNCH WILL START AS SUON AS THE NECESSARY DATA HAS BEEN RECEIVED. AFTER PUNCHING HAS BEEN COMPLETED THE PROGRAM LISTS THE EDIT INFORMATION FOR A RECORD.

MOST ERRORS THAT ARE FOUND BY THE PROGRAM WILL BE CORRECTED AT THE TIME THE DATA IS REQUESTED. IN THE 4K EDIT CONTROL PROGRAM IF THE CORRECTION CAN NOT BE ACCOMPLISHED AT THE TIME OF ENTRY, A MESSAGE OCCURS INDICATING THE PROGRAM AND SKELETONS MUST BE RELOADED OR PRESS START TO IGNORE THE ERROR AND MAKE THE CORRECTION MANUALLY AFTER THE EDIT INFORMATION HAS BEEN PUNCHED AND PRINTED. IN THE 8K EDIT CONTROL PROGRAM IT REINITIALIZES ALL SKELETONS AND CONTINUES FROM THE POINT OF ERROR.

ONLY ONE PID MAY BE EDITED AT A TIME AND IF A SECOND EDITING IS REQUIRED SEE SECTION 3.5 FOR RERUN OR RESTART.

6. PROGRAMMERS GUIDE TO EDIT CONTROL USAGE

6.1 PURPOSE

IT IS THE INTENT OF THIS DOCUMENTATION TO SPECIFY HOW THE PROGRAMMER CAN TAKE ADVANTAGE OF COMMON ROUTINES WHEN WRITING SKELETONS TO RUN WIT EDIT CONTROL PROGRAM. EDIT CONTROL PROVIDES.

- SHARING OF PREDEBUGGED COMMON ROUTINES.
- INTERFACE BETWEEN SKELETON AND I/O DEVICES.
- SEQUENCING OF SKELETON OPERATION WHEN SEVERAL SKELETONS ARE REQUIRED.
- COMMON BLOCKS OF STORAGE FOR MULTIPLE USE.

6.2 RESERVED AREAS OF STORAGE

'KEYIN'

THIS IS A BLOCK OF 600 WORDS USED TO STORE KEYBOARD ENTRIES AS THEY ARE RECEIVED. AT LOCATION 'KEYIN-1' IS A COUNT OF THE WORDS STORED IN 'KEYIN'. THIS BLOCK OF DATA AND THE WORD COUNT IS CLEARED BY CALL ON THE ROUTINE'KEY. A TERMINATOR WORD OF /FFFF IS SET AS THE LAST WORD IN 'KEYIN' WHENEVER THE EOF KEY IS DEPRESSED FOLLOWING ANY KEYBOARD CODE. THIS AREA MAY BE USED AS TEMPORARY STORAGE BY SKELETONS BETWEEN CALLS ON THE ROUTINE 'KEY'

A BLOCK OF 160 WORDS USED TO STORE CONVERTED DATA. THIS DATA WILL BE EITHER DECIMAL OR HEXADECIMAL DEPENDING ON THE CONVERSION ROUTINE LAST USED BY THE SKELETON. A COUNT OF THE NUMBER OF WORDS CURRENTLY STORED IS CONTAINED IN LOCATION *BINARY-1.*

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C. 'ZERO'

THIS LOCATION CONTAINS A CONSTANT OF ZERO.

D. 'TERM'

THIS LOCATION CONTAINS A CONSTANT OF /FFFF.

'STBF'

THIS STORAGE LOCATION CONTAINS THE DISPLACEMENT OF THE NEXT LOCATION AVAILABLE IN THE BLOCK OF CORE LABELED 'SEIB. ' STBF WILL BE PROPERLY UPDATED BY CONTROL IF EDIT CARDS ARE STORED IN CARD ORDER. IF IT IS DESIRED TO BUILD EDIT CARDS OUT OF SEQUENCE. THEN 'STBF' MUST BE MAINTAINED, BY THE SKELETON USER.

'SEIB'

A BLOCK OF 322 WORDS USED FOR SAVING EDIT CARDS. THIS BLOCK MAY NOT BE REFERENCED DIRECTLY BY THE SKELETON. HOMEVER, IT MAY BE REFERENCED THRU LABEL 'SRTRY+1' TO +323. THE NEXT AVAILABLE LOCATION MAY BE FOUND BY REFERENCE TO THE DISPLACEMENT CONSTANT CONTAINED IN LOCATION 'STBF.

'SRTRY'

THIS LOCATION SHOULD ALWAYS CONTAIN THE RETURN ADDRESS TO BE REFERENCED BY ROUTINE 'SER' IN CASE OF AN ERROR. THIS LOCATION MAY BE SET EITHER BY A DIRECT STORE OR BY A CALL ON ROUTINE

6.3 ROUTINES AVAILABLE IN EDIT CONTROL

THE FOLLOWING IS A DESCRIPTION OF THE ROUTINES AVAILABLE AND THE CALL NECESSARY TO USE THE ROUTINE.

'CKYN' - CHECK KEYBORAD ENTRY FOR Y OR No.

BSI I CKYN RETURN 1. RETURN 2.

THE ROUTINE WILL CHECK THE KEYBOARD ENTRY STORED AT LOCATION 'KEYIN' FOR Y OR N. IF THE ENTRY IS Y. THE ROUTINE WILL RETURN TO RETURN 1. IF THE ENTRY IS N. THE ROUTINE WILL RETURN TO RETURN 2. THE ROUTINE WILL ACCEPT EITHER THE UPPER OR LOWER CASE ENTRY FOR THE Y AND N KEYS. IF THE ENTRY IS NEITHER Y OR N A CALL IS MADE ON ROUTINE 'SER' TO PRINT 'ILLEGAL ENTRY."

"ENDO" - END STATEMENT RETURN

END1 BSC L ENDO END1

IN ORDER TO PREVENT RELOCATION ERRORS DURING ASSEMBLY, EACH SKELETON MUST END WITH THE ABOVE TWO STATEMENTS. THE END STATEMENT WILL THEN GO TO LABEL 'ENDI' WHICH WILL BRANCH TO THE EDIT CONTROL PROGRAM AFTER LOADING OF EACH SKELETON.

"HLT" - RELOAD WAIT

BSI I HLT

BRANCH TO A WAIT WITHIN THE EDIT CONTROL PROGRAM. THIS WAIT MUST BE USED WHEN AN ERROR REQUIRING RELOAD IS ENCOUNTERED.

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D. "KTYPS" - PRINT WITH NO CONVERSION

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BSI I KTYPS

TILT CODE. THE MESSAGE ADDRESS MUST BE CONTAINED IN INDEX REGISTER 1. PRINTING IS TERMINATED WHEN /FFFF IS FOUND.

'KEY' - PRINT EBCDIC AND READ KEYBOARD

BSI I KEY MESSAGE ADDRESS DC CONTROL WORD

ADDRESS PRINTING CONTINUES UNTIL /FFFF IS FOUND. IF MESSAGE ADDRESS POINTS TO A /FFFF, NO PRINTING WILL TAKE PLACE.

AFTER PRINTING. BIT O OF THE CONTROL WORD IS CHECKED FOR THE FOLLOWING.

BO - O - RETURN WITHOUT READING KEYBOARD - 1 - READ THE KEYBOARD UNTIL EOF IS DEPRESSED.

BITS 6 AND 7 OF CONTROL WORD.

STORE KEYBOARD ENTRIES IN "KEYIN" AREA WITH MO 00 -CONVERSION.

CONVERT KEYBOARD CHARACTERS RECEIVED (AS SPECIFIED BY BITS 8-11) TO DECIMAL AND STORE IN

CONVERT KEYBOARD CHARACTERS RECEIVED (AS SPECIFIED BY BITS 8-11) TO HEXADECIMAL AND STORE IN 'BINRY' AREA.

BITS 8-11 OF CONTROL WORD

WITH NO CONVERSION THIS IS THE MINIMUM NUMBER OF CHARACTERS TO ACCEPT.

WITH COVERSION, THIS IS THE NUMBER OF KEYBOARD CHARACTERS TO CONVERT TO ONE DECIMAL OR HEXADECIMAL WORD.

'SSUER' - SET ERROR RETURN

BSI I SSUER

STORE THE ADDRESS OF THE CALL IN LOCATION 'SRTRY' FOR POSSIBLE LATER USE BY ROUTINE SER.

"SER" - PRINT ERROR MESSAGE

BSI I SER MESSAGE ADDRESS

PRINT THE MESSAGE SPECIFIED BY MESSAGE ADDRESS AND RETURN TO THE ADDRESS CONTAINED IN LOCATION 'SRTRY.' MESSAGE IS TERMINATED BY /FFFF.

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SIL - CHECK FOR VALID INTERRUPT LEVEL

BSI I SIL

CHECKS THE DECIMAL ENTRY STORED AT LOCATION 'BINRY' FOR A VALID INTERRUPT LEVEL. IF THE ENTRY IS VALID. THE ROUTINE RETURNS WITH THE ENTRY IN THE A REGISTER IN BITS O THROUGH 7. IF THE ENTRY IS GREATER THAN 23, THIS ROUTINE WILL CALL ON ROUTINE SER! TO PRINT 'ENTRY TOO LARGE'.

SILSW - CHECK FOR VALID ILSW BIT

BSI I SILSW

CHECKS THE DECIMAL ENTRY STORED AT LOCATION BINRY FOR A VALID ILSW BIT. IF THE ENTRY IS VALID, THE ROUTINE RETURNS WITH THE ENTRY IN THE A REGISTER IN BITS 8 THROUGH 11. IF THE ENTRY IS GREATER THAN 15. A CALL IS MADE ON ROUTINE 'SER' TO PRINT 'ENTRY TOO LARGE'.

"SCH" - CHECK FOR VALID CHANNEL

BSI I SCH

CHECKS THE HEXADECIMAL ENTRY STORED AT LOCATION BINRY FOR A VALID CHANNEL. IF THE ENTRY IS VALID, THE ROUTINE RETURNS WITH THE ENTRY IN THE A REGISTER IN BITS 12 THROUGH 15. 1F THE ENTRY IS GREATER THAN 8 AND IS NOT F. A CALL IS MADE ON ROUTINE "SER" TO PRINT 'ENTRY TOO LARGE'.

'SKINO' - CLEAR KEYIN AREA

BSI I SKINO

CLEARS THE BLOCK OF CORE LABELED 'KEYIN' TO ALL ZEROS.

"SKINI" - SET KEYIN AREA

BSI I SKINI

SETS THE BLOCK OF CORE LABELED 'KEYIN' TO /FFFF.

'PDKYB' - CONVERT KEYBOARD TO DECIMAL

BSI I PDK YR

DC CHARACTERS PER WORD DC

ADDRESS OF DISPLACEMENT

STARTING AT LOCATION 'KEYIN' + THE CONTENTS OF DISPLACEMENT ADDRESS, THIS ROUTINE WILL CONVERT TO ONE DECIMAL WORD THE NUMBER OF KEYBOARD CHARACTERS SPECIFIED BY CHARACTERS PER WORD. CONVER-SION WILL CONTINUE UNTIL A TERMINATOR OF /FFFF IS FOUND.

PHKYB - CONVERT KEYBOARD TO HEXADECIPAL

BSI I

CHARACTERS PER WORD DC

ADDRESS OF DISPLACEMENT

THIS ROUTINE IS IDENTICAL TO ROUTINE 'PDKYB' EXCEPT THAT THE CONVERSION IS TO HEXADECIMAL.

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"SECSU" - SET EDIT CARD

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SECSU ADDRESS OF DATA

INDEX REGISTER 1 MUST CONTAIN PID. INDEX REGISTER 2 MUST CONTAIN CARD NUMBER. INDEX REGISTER 3 MUST CONTAIN NUMBER OF ENTRIES.

THIS ROUTINE WILL SET ONE COMPLETE EDIT CARD INTO LOCATION SEIB + STBF. THE CONTENTS OF STBF WILL BE UPDATED BY THE ROUTINE TO THE NEXT AVAILABLE LOCATION AFTER THE EDIT CARD JUST STORED. 'STBF' MAY BE SET BY THE SKELETON IF IT IS DESIRED TO SET EDIT CARDS OUT OF SEQUENCE.

'S2' - SKELETON EXIT

BSC L S2

THIS IS THE FINAL EXIT POINT, TO CONTROL, FOR EACH SKELETON. THE CONTROL SECTION WILL CHECK THE NEXT SKELETON FOR A TERM SKELETON. AND IF FOUND IT WILL PUNCH AND LIST THE EDIT CARDS. IF NOT FOUND THE NEXT SKELETON WILL BE ENTERED.

6.4 SKELETON REQUIREMENTS

EACH SKELETON MUST BE PRECEEDED BY A SERIES OF EQUATE STATEMENTS. (SEE SECTION 6.6). THE SKELETONS MUST BE RELOCATABLE AND THE ORIGIN STATEMENT MUST BE TO *+3095. NO SKELETON MAY EXCEED 1000 WORDS AND TOTAL SKELETONS FOR ANY ONE PID MUST NOT EXCEED 5000 WORDS.

THE FIRST THREE WORDS OF EACH SKELETON ARE RESERVED FOR PID. CARD NUMBER AND NUMBER OF ENTRIES. THE FOURTH WORD MUST BE THE ENTRY POINT OF THE SKELETON . THESE FIRST FOUR WORDS MUST BE LABELED SKI1, SKI2, SKI3, AND SKI4. (SEE SECTION 6.7).
EACH SKFLETON MUST END AS EXPLAINED UNDER 'ENDO'. SECTIONS 6.6, 6.7,
AND 6.8 CONTAIN A SAMPLE PROGRAM WHICH CAN BE USED FOR REFERENCE. MESSAGES AS SHOWN IN THE SAMPLE PROGRAM ARE IN STANDARD FORMAT AND THIS FORM SHOULD BE FOLLOWED. STANDARD MESSAGES PRESENTLY IN THE DOCUMENTA-TION SHOULD BE USED WHENEVER POSSIBLE TO PREVENT DOCUMENTATION CHANGES.

6.5 COMMENTS

ANY LABELS CONTAINED IN THE EQUATE STATEMENTS NOT EXPLAINED ABOVE ARE SPECIALIZED ROUTINES USED EXCLUSIVELY BY THE AT EDIT SKELETONS AND NEED NOT CONCERN THE USER.

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6.6 EQUATE STATEMENTS

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υυυς ()

	OR G	* +3095
KEY	EQU	300
CKYN	EQU	KEY+1
SSUER	EQU	CKYN+1
SIL	EQU	SSUER+1
SILSW	EQU	SIL+1
SCH	EQU	SILSW+1
SER	EQU	SCH+1
SECSU	EQU	SER+1
SK IN 1	EQU	SECSU+1
SKINO	EQU	SKIN1+1
PDKYB	EQU	SKINO+1
PHKYB	EQU	PDKYB+1
ENDO	ΕQU	PHKYB+1
\$ <i>2</i>	EQU	ENDO+2
BINRY	EQU	\$2+4
KEYIN	EQU	BINRY+161
ZERO	EQU	KEYIN+600
BGNR	EQU	ZERO+1
ERR	E QU	BGNR+1
WCC	EQU	ERR+1
MTRM	EQU	WCC+1 -
TRFX	EQU	MTRM+1
TERM	EQU	TRFX+1
LWC	EQU	TERM+1
LGROP	EQU	LWC+1
STBF	EQU	LGROP+1
SRTRY	EQU	STBF+1
KYTPS	EQU	SRTRY+323
HLT	EQU	KYTPS+1
CODE	EQU	HLT+1
	0	UF LAT

6.7 PROGRAM SECTION

~~~ 3EC   II	UN				
SKI1 SKI2 SKI3 SKI4	DC DC DC BSI BSI DC	I	/000B /0000 /0002 SSUER KEY SM1 /8120	PID CD NO NO OF ENTRIES SET ERROR RETURN ENTER IL	SRC SRC
•	BSI Sto	Į	S1L SWB1	CK IL Save	SRC
•	BSI BSI DC DC	I	SSUER KEY SM2 /8120	SET ERROR RETURN Enter Ilsw	SRC SRC
•	BSI EOR Sto	I L L	SILSW SWB1 SWB1	CK ILSW BIT Build ddef Save	SRC
•	BSI BSI DC DC	I	SSUER KEY SM3 /8210	SET ERROR RETURN ENTER CH	SRC SRC
•	BSI EOR STO	I	SCH SWB1 SWB1	CK CHANNEL BUILD DDEF SAVE	SRC
	BSI BSI	I	SSUER KEY	SET ERROR RETURN 2 DRS ON SYS	SRC SRC

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•	D(	-	SM4 /8000		
•	B S MC		I CKYN SK1	CK FOR Y OR N Entry was y	SRC
	LC St MD	0	K0001 Sw B2 SK2	GET 1 SET NOT AVAIL	
* SK1 *	SL ST		16 SW B 2	SET AVAIL	
SK2	LD LD	X	II SKII I2 SKI2 I3 SKI3	SET IXING	
•	B S DC	1	I SECSU SWB1	SET CARD	SRC
•	BS BS DC DC		I SSUER I KEY SM5 /8000	SET ERROR RETURN ARE WD CT CHGS DES	SRC SRC
•	BS1 MD2 MD2	(	CKYN SK3 SK4	CK FOR Y OR N ENTRY WAS Y ENTRY WAS N	SRC
SK3	LDX LDX	ĺ	1 SKI1 2 SKI5 3 SKI6	SET IXING	
•					
	BS I DC	I	SECSU Swb3	SET CARD	SRC
	BSC	L	<b>S2</b>	EXIT	
SK4	BSI BSI DC	I I	SSUER KEY	SET ERROR RETURN ENTER REC WD CT.	SRC SRC
•	DC		SM6 /8040		JAC
•	LD CMP MDX NOP	L	KEYIN-1 KOO56 SKEO1 O	GET WD CT CK FOR MAX ERFOR—TOD MANY	
SK5	LDX LD STO LD STO	L L L	KEYIN O KEYIN TERM KEYIN+1	SET IX GET ENTRY SET GET FFFF SET	
	BSI DC DC LD BSC	I L L		CONVERT  GET REC NO ERROR	SRL
£ W 4	CMP MPX NOP STO		K0008 SKE04 0 SK6+1	CK FOR MAX TOO GREAT	
SK6	HDX MDX MDX	L	0 2 KEYIN-1,-2 SK7	IX 3 = ENTRY	
	BS I DC	1	SER SEOO1	TOO FEW ENTRIES	SRC

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					PROG ID Page	0802-4
SE004	EBC EBC		• ENTRY TOO	-CD OO. LARGE .		
*	DC		/FFFF	•		
	EBC		.T-MAX IS 100	0.		
	EBC		• FOO LARGE	A WD C.		
* SE003	EBC		.F012 010 00	-CD 00	•	
_	DC		/FFFF			
	EBC EBC		. IMPROPER N	IUMBER .		
SE001	EBC		.EC10 PID OB	-CD 00.		
	DC		SE004	. 20 HAG ELKU	SRC	
* Skeo5	BSI	1	SER	FLD WAS ZERO	<b>T</b> 0.5	
SKE 04	BSI DC	I	SER SE004	REC TOD GREAT	SRC	
*		_				
SKE03	BSI DC	i	SER SE003	WD CT TOO GREAT	SRC	
*	DC	•	SEO01	TOO MANY WD CTS	SRC	
* SKE01	BSI	ı	SER			
SK 15 SK 16	DC DC		/0001 /0008	CD ONE NO OF ENTRIES		
*	DC DC DC		0 0 0			
	DC		0			
	DC DC		0			
SWB3	DC DC		9 0			
SWB2	DC DC		0	DATA STORAGE		
* SWB1						
K0056 K1000 K0008	DC DC DC		56 1000 8	- CONTRACT OF		
* K0001	DC		1	CONSTANTS		
	MDX MDX		S5 SK3	GET NEXT Complete		
	MDX	L	KEYIN-1,-5	INCR IX 1 DECR WD CT		
	STO MDX		3 SW 82	SAVE ENTRY		
	MDX NOP		SKEO3 O	ERROR TOO GREAT		
	LD CMP	L	BINRY K1000	CK NUMBER		
	DC		ZERO			
	BSI DC	I	PDK YB	CONVERT	SRC	
*	STO	L	KEYIN+4			
	STO LD	L	KEŸIN+3 Term	4	•	
	LD		1 3	k 8	•	
	ŁD STO		1 2			
	LD (\$70	£	l l "Keyin+1	,		
	STO		KEYIN			
	LD		1 0	SET ENTRIES		

•	EBC DC		•OR 0000• /FFFF
SI	#1 EBC EBC EBC EBC DC		•COO1 PID OB-CD OO. • ENTER 2 DIGIT DE. •CIMAL INTR LVL FOR. • MAG TAPE. /FFFF
SM	EBC EBC EBC EBC DC		.COO2 PID OB-CD OO ENTER 2 DIGIT DECIMAL ILSW BIT FOR MAG TAPE.
SM	EBC EBC EBC EBC DC		• COO3 PID OB-CD OO. • ENTER 1 DIGIT DE. • CIMAL CH FUR MAG T. • APE. /FFFF
SM #	EBC EBC EBC EBC DC		•C005 PID OB-CD 00. • DOES THIS SYSTEM. • HAVE 2 TAPE DRS-T. •YPE Y OR N.
SM	5 EBC EBC EBC EBC DC		• CO15 PID OB-CD O1. • IS IT DESIRED TO. • CHANGE WD CTS-TYP. • E Y OR N. /FFFF
SM	6 EBC EBC EBC EBC EBC		.CO16 PID OB-CD O1 ENTER REC TO CHANGE AND WD CT DESIRED, 1-8 ENTRIES IN FOLLOWING FORMAT\$D DDDD,.
EN		L	ENDO END1

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6.8 TERM SKELETON

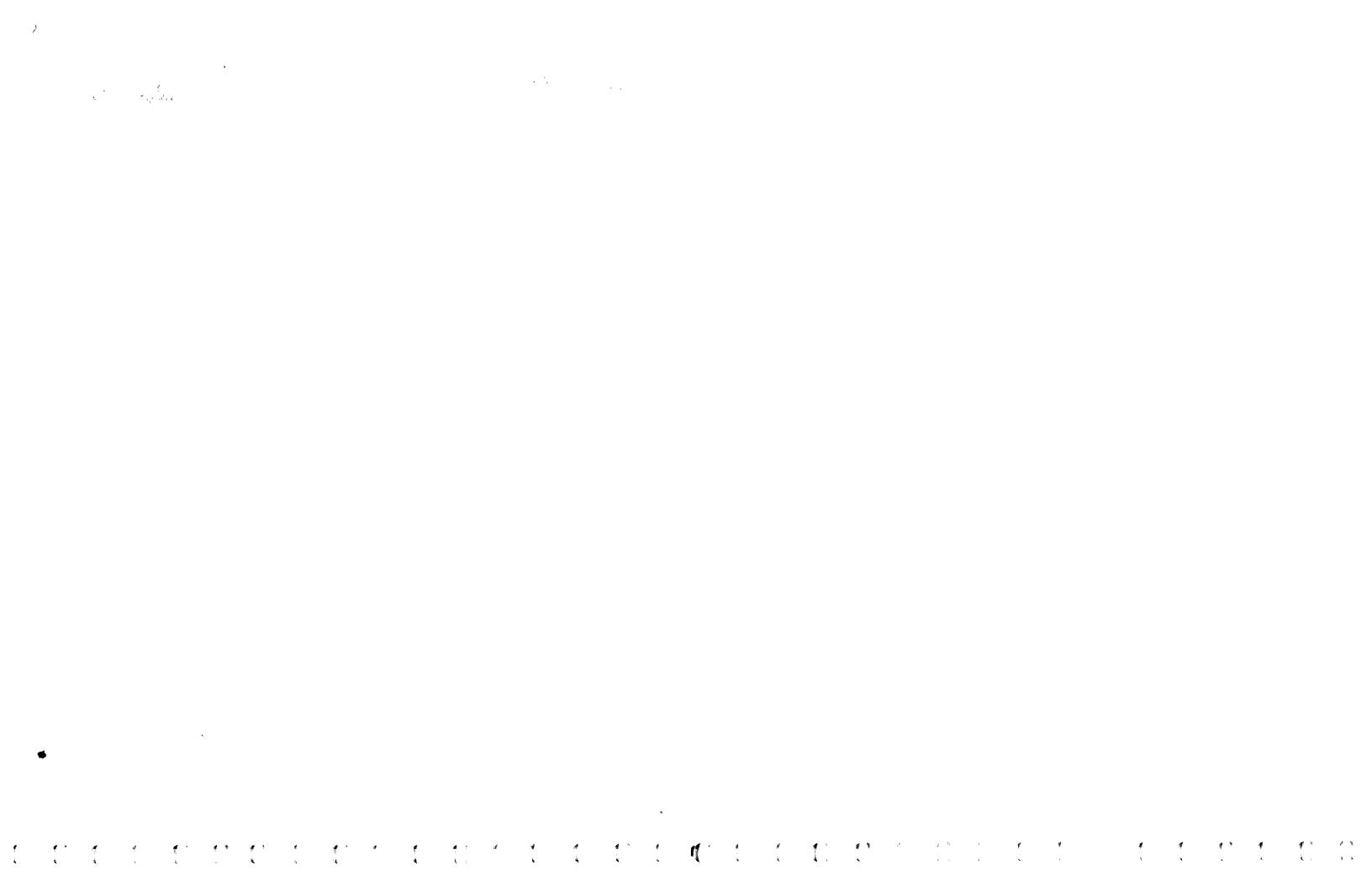
	OR G	*+3095
KEY	EQU	300
CKYN	EQU	KEY+1
SSUER	EQU	CKYN+1
SIL	EQU	SSUER+1
SILSW	EQU	511+1
SCH	EQU	SILSW+1
SER	EQU	SCH+1
SECSU	EQU	SER+1
SK IN1	E QU	SECSU+1
SK I 140	EQU	SKIN1+1
PDKYB	EQU	SKINO+1
PHKYB	EQU	PDKYB+1
ENDO	EQU	PHKYB+1
S 2	EQU	ENDO+2
BINRY	EQU	S2+4
KEYIN	EQU	BINRY+161
ZERO	EQU	KEYIN+600
BGNR	EQU	ZERO+1
ERR	EQU	BGNR+1
WCC	EQU	ERR+1
MTRM	EQU	WCC+1
TRFX	EQU	MTRM+1
TERM	EQU	TRFX+1
LWC	EQU	TERM+1
LGROP	EQU	LWC+1
STBF	EQU	LGROP+1
SRTRY	EQU	STBF+1
KYTPS	EQU	SRTRY+323
HL T	EQU	KYTPS+1
CODE	EQU	HLT+1
SKII	DC	/000B
SKI2	DC	/FFFF
Sk 13	DC	0
SKI4	DC	0
END1	BSC L	ENDO
	END	END1

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4K EDIT CONTROL		PAGE 1	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1000 SYSTEM PART NO. 2242261
				4K EDIT CONTROL
	ABS		0 0	*
02B <b>C</b>	ORG /3001	8C200010		013D 0 0000 BMC DC 0 0111511 1155
	•	8C200020 8C200030	$O \setminus O$	013D 0 0000 BMC DC 0 BINARY WORD COUNT 8C200690
	****************	80200040		***************************************
3001 0 0772	DC WAITI+1 1816 IS OUT OF FORMS.	80200050	$O \setminus O$	01DF 0258 86200720
	MAKE READY AND PRESS	8C200060 8C200070	-	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0
	START.	80200080	nlo	70000
3002 0 075C	· -	8C200090 8C200100		0439 0 04C1 8C200740
0,70	DC WAITZ+1 1816 IS HUNG IN BUSY.	8C200110	6	043A 0 0AC5 HCC DC 1HCC 8C200770
	RESTART IS REQUIRED.	80200120	· · ·	043B 0 OACD MTRM DC LMTRM 9C200780 043C 0 OAE5 TRFX DC LTBEY 8C200790
	<del>-</del>	8C200130 8C200140	,** <u>.</u>	043D 0 FFFF TERM DC /FFFF 8C200800
3003 0 0983	DC WAIT3+1 1442 IS NOT READY	8C200150	€ i	043E 0 0000 LWC DC WC STORAGE 8C200810
	BEFORE A READ.	8C200160 8C2001 <b>70</b>		0440 0 0000 STAF DE GROUP COUNTER 8C200830
	MAKE READY AND PUSH	8C200180	•	0441 0 0000 SRTRY DC /0000 BISPLACEMENT 8C200840
	START.	8C200190		8C200850 8C200860
3004 0 098A	DC WALTAA1 1442 DEAD COOP	8C200200 8C200210	( )	<b>⊕</b> 8C20087 <b>0</b>
	THE READ ERROR.	8C200220		******** EDIT IMAGE BUFFER ******* 8C200880
	RELOAD CARDS AND PUSH START TO RETRY.	8C200230 ·	ń	0443 0341 SEIB DC /0000 86200000
	**************************************	8C20024 <b>0</b> 8C20025 <b>0</b>		0584 0 0768 KTYPS DC KTYP 8C200910
300E 6	*************	8C200260	· · · · · ·	0585 0 08E5 HLT DC HLTE 8C200920
3005 0 OBE7	WAITS+1 RELOAD REQUIRED TO	8C200270 8C200280		0588 0000 BSS E 0 8C200940
	CORRECT ERROR-PRESS	8C200290	0 0	0588 00 4C00058B
	START TO IGNORE.	80200300		# 8C200760
	<b>▼</b>	8C200310 8C200320		* COMINDE SECTION 8C50080
3006 0 0907	DC WAIT6+1 1442 IS NOT READY	8C200330		058A 0 1000 STARI NOP 0 8C200990 058B 00 C40005E2 START LD 1 83095 SEX 100 200000
	BEFORE PUNCH. MAKE	8C200340 8C200350	,	058D 00 D400006F STO 1 7006F BC201010
	READY AND PRESS START.	8C200360	•	0501 0 14000125 STO L /0125 # 8C201020
	<b>▼</b>	80200370		0591 0 1010 SLA 16
3007 0 09DE	**************************************	8C200380 8C200390	( )	0594 00 D4000440 STD L STBF 8C201050
	B POSSE LYANT TO A PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	8C200400		0596.0.0663
	######################################	8C200410 8C200420		0597 00 DC000000 STD 1 (2000
	************	8C200430	i	0599 00 4480012E S1 BSI I SSUER SET ERROR RETURN SEC 86201090
3008 0 05E0	DC WAIT8+1 END OF PROGRAM.	8C200440 8C200450		059D CORRESPONDED SEC SCRIPTO
	LOAD SKELETONS AND	3C200450	i	059E 0 8220 DC /8220 8C701120
2000	PRESS START TO RERUN.	8C200470		0595 00 5400005
3009 0C17	300	8C200480 8C200490	7	05A1 00 B40005E6 CMB 1 MOSE SCIPTO REQUESTED 8C201150
OC13	SKI2 EQU SKI1+1	8C200500		MDX ERRO4
OC19 OC1A	SKI3 EOU SKIZ+1	8C200510 8C200520	İ	05A5 0 D03R 8C2011RA
012C 0 05E7	SKI4 EQU SKI3+1 KEY DC KEYE	8C200530		\$ SAVE 8C201190
012D 0 077A	CKYN DC CKYNE	8C200540	' '	05A6 00 44000A94
012E 0 079A 012F 0 07A1	SSUER DC SSUEE SIL DC SILE	8C200550 8C200560	<b>~</b>	05A8 0 C8DF LDD SPSY CCT 2020
0130 O 07AF	SILSW DC SILSE	8C200570		05A9 00 DC000000 STD L /0000 * 8C201230 8C201240
0131 0 07BA 0132 0 07CB	SCH DC SCHE	8C200580 8C200590	,	05AB 00 C4000C17
0133 0 0705	SER DC SERE SECSU DC SECSE	8C200600		05AD 00 F40005E1
0134 0 0803 0135 0 080E	SKINI DC KINI	8C200610 8C200620		0581 00 44200589 BSC L ENDI+Z NO 86201270
0136 0 0818	SKINO DC KINO PDKYB DC DKYB	8C200630		05B3 00 F400043D
0137 0 0821	PHKYB DC HKYB	8C200640		0587 00 4C1805C3 BSC L STTRM.+- YES 8C201300
0138 00 4C800A94 013A 00 4C0005B9	ENDO BSC I RDSK S2 BSC L ENDI	8C20065 <b>0</b> 6C20066 <b>0</b>	)	\$ 8C201320
013C 0 0000	SZ BSC L ENDI	8C200670		0589 00 C40005E2 END1 LD L K3095 RESET LOADER CASTS 8C201330
	•	8C200680		05BD 00 0400012s 80201350
ATE 04NOV66 C NO. 415233				\$10 £ 70125 <b>*</b> 8C201360
ATE 04NOV66 C NO. 415233		PROG ID 08C2-0	'   )	DATE_ 04NDV66
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4K EDIT CONTROL			PAGE	2	(*)	o	IBM MAINTENANCE I	DIAGNOSTIC PROGRAM FOR T	HE 1800 SYSTEM	PART NO. 2242261 PAGE 28
058F 0 1010	SLA 16	_				0				
05C0 00 D4000127 05C2 0 70E3	SLA 16 STO L /0127 MDX S2E	DEAD MEME CHELDON	8C2013 8C2013		٠,	0		*********	******	
0503 00 04000440	******	READ NEXT SKELTON	8C2013 8C2014	9 <b>0</b> 00		U	0601 0 6208	* LDX 2 8		8C20205 <b>0</b> 8C20206 <b>0</b>
05C5 00 84000801 05C7 0 D001	A L STBF1	COMPUTE ADRS	8C2C14 8C2O14	10	-,	Ō	0602 00 67000A50 0604 0 7101	KEBC3 LDX L3 KTGLT	CONVERT-CHARS TO RTT	8C2O2O70 8C2O2O8O
0508 00 6500000	\$10 #+1 LDX L1 0	SAVE	802014	30			0605 00 C4800A1C	MDX 1 1 KEBC4 LD I KMSG	FETCH EBDIC CHARS	8C2O2O9 <b>O</b>
05CA 00 C4000C17 05CC 0 D100	LD L SKII STO 10	GET PID	8C20144		-	0	0607 0 1A00 0608 0 1008	SRA 2 0 SLA 8	TETON CODIC CHARS	8C2O2100 8C2O2110
05CD 00 C400043D 05CF 0 D101	LD L TEPM	GET TERMINATION	8C20144 8C2014	80			0609 0 1808 060A 0 F300	SRA 8		8C2O2120 8C2O2130
05D0 00 44000907	STO 11 BSI L PECOR	SET Punch edit	8020148	30	'	$\sim$	060B 0 D100	EOR 3 O Sto 1 O		8C2O2140
05D2 0 1010 05D3 00 D4000440	SLA 16 STO L STBF	CLEAR DISPL	SRC 8C20149 8C20150	0		•	060C 0 1008 060D 0 7301	SLA 8 MDX 3 1		8C20 <b>2150</b> 8C20 <b>2160</b>
0505 00 65000142	•	•	8C20151 8C20152	0			060E 00 4C200605	BSC L KEBC4.Z	BR IF NOT THE CHAR	8C2O2170 8C2O2180
05D7 00 D4000441 05D9 0 71FF	STTR STO L SEIB-1	CLEAR EDIT BFR	8020153	0			0610 0 7200	MDX 20	SKIP IF 2 CHARS CNVT	8C202190
05DA 0 70FC	MDX 1 -1 MDX STTR		8C20154 8C20155		1		0611 0 7000	MDX KEBC6	The County Cital	8C2O2 <b>210</b>
05DB 00 4480012C 05DD 0 0BD1	BSI I KEY	PROG END	8C20156 SRC 8C20157		, and	(7)	0612 00 C4000A2C 0614 0 8100	LD L KONE	SET TERMINATOR	8C20222 <b>0</b> 8C20223 <b>0</b>
05DE 0 0000	DC SM33		8C20158	Ö			0615 0 D100 0616 00 65000A1D	A 1 0 STO 1 0		80202240
05DF 0 3008	WAITS WAIT 8	PROGRAM END	8C20159 8C20160		.	0	0618 00 44000768	BSI Ł KTYP	GO PRINT CHARS	8C2O2250 8C2O2260
05E0 0 70AA	MDX START	RESTART PROG	8C20161 8C20162				061A 00 65000A1C	* FDX F1 KON1-1		8C2O2270 8C2O2280
05E1 0 0000 05E2 0 0C17	XPID DC 0	CONSTANTS	8020163	0	( )	0	061C 00 74010A1C 061E 0 70DC	MDX L KMSG.1	POINT TO NEXT WORD	8C202290 8C202300
05E3 00 44800132	K3095 DC 3095 ER ² 04 BSI I SER		8C201646 8C201656	Ō	~ <b> </b>	0		◆ MDX KEBCZ		8C202310
05E5 0 OBAD 05E6 0 OOFF	DC SEOOS		8C201660 8C201670		I	U	061F 0 6200 0620 0 70E1	KEBC6 LDX 2 0	CONVERT SECOND CHAR	8C2O232 <b>O</b> 8C2O233 <b>O</b>
	* /OOFF	4	8C20168	0	0	0		MDX KEBC3	*****	8C2O2340 8C2O2350
	•		8C201696 8C201706			•	<b>44.00 </b>	•		8C2O2360
	•	PRINTER I/O ROUTINE	8C201710 8C201720		.	n .	0621 00 65000A79 0623 00 44000768	KCHK LDX L1 KCR BSI L KTYP	<b>80 8.6</b>	8C2O2 <b>37O</b> 8C2O2 <b>38O</b>
	•	CALL BSI KEY	8C201730				0625 00 C48005E7 0627 00 4C280636	LD I KEYE	DO CAR RET SR	
	•	DC MSGAD	8C201740 8C201750	•	`	0	0021 00 4C200036	BSC L KFRM,+Z	BR IF KBD ENTRY	8C2O <b>241O</b>
	•		8C201760 8C201770				0629 00 65000000	* KEY96 LDX L1 /0000		8C20 <b>2420</b> 8C202 <b>430</b>
	•	ID BIT O KEYBOARD XOXX NO CONV	8C201780 8C201790	1			0628 00 66000000 0620 00 67000000	KEY97 LDX L2 /0000	RESTORE STATUS	8C202440 8C202450
	•	X1 XX DEC CONV X2 XX HEX CONV	8C201800		1-3		062F 00 CC000A22	LDD F KWG		8C2 <b>02460</b>
	•	VEVY HEY COMA	8C20181 <b>0</b> 8C20182 <b>0</b>				0631 0 2000	KEY99 LDS 0	*	8C2O2470 8C2O2480
05E7 0 0000 05E8 0 6941	KEYE DC /0000		8C201830 8C201840		7		0632 00 740105E7 0634 00 4C8005E7	MDX L KEYE, 1		8C2O2490 8C2O2500
05E9 0 6A42 05EA 0 6B43	STX 1 KEY96+1 STX 2 KEY97+1	SAVE STATUS	8C201850				10000327	85C 1 KEYE	RETURN EXIT	8C2O2510
5EB 00 DC000A22	STX 3 KEY98+1 STD L KAQ		8C201860 8C201870		7 (	<b>-</b> 1		*******	****	8C2 <b>02520</b> 8C2 <b>02530</b>
5ED 0 2843	STS KEY99		8C201880 8C201890				0636 0 1090	* KFRM SLT 16		8C2O2540 8C2O2550
5EE 00 C48005E7 5F0 00 D4000A1C	TO I KENE	FETCH MESS ADRS	80201900				0637 00 C48005E7 0639 0 1004	LO I KEYE	FETCH FORM NUMBER	8C2O2560
5F2 00 740105E7	STO L KMSG MDX L KEYE,1	POINT TO ID	8C201910 8C201920				063A 0 18CC	SLA 4 RTE 12		8C2G <b>2570</b> 8C2 <b>G2580</b>
5F4 00 6500CA1D	•		8C201930 8C201940			•	063B 00 D4000729 063D 0 1804	STO L KEYFM	SAVE FORM NO	8C2O <b>259O</b> 8C2O <b>26OO</b>
5F6 00 C4000A79	LDX L1 KOUT LD & KCR	SET CARRIER RETURN	8C201950		*		063E 0 1084 063F 00 D4000724	SRA 4 SLT 4		9C202610 8C202620
5F8 0 1808	SRA 8	CLEAR EBDIC CODE	8C201960 8C201970				3031 00 D4000124	STO L KEYNO	SAVE CHAR/WD COUNT	8C202630
5F9 0 1008 5FA 0 D100	SLA 8 STO 1 0		8C201980 8C201990		~\ r		0641 00 44800134	* KEYOG BSI I SKINI	Emm unus	8C202640 8C202650
ED 00 6/000	•	STORE IN OUTPUT AREA	8C20200C				0643 00 6F0001DE	•	SET KEYIN TO FFFF SRC	8C202660
FD 00 84000A2C	KEBC2 LO I KMSG	CHECK TERMINATOR	8C202010 8C202020		, ,	1		STX L3 KIWC	RESET WD CT	8C20267 <b>0</b> 8C202680
FF 00 4C180621	BSC L KCHK++-	BR IF NO MORE MESS	8C2O2O3O 8C2O2O4O		<b>,</b>		0645 00 670001DF	LDX L3 KEYIN	RESET READ AREA	8C2O2690 8C2O2700
76 040000							0647 00 6F000AZA	KEYO STX L3 KRED	<b>医班班在政治委员会市中委员会市场</b>	8C202710 8C202720
TE 04N0V66			PROG 1D PAGE	0802-0	~ ~	)				
			PAGE	2.	•	,	PATE 94NQY66			

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IBM	MAINTENANCE	DIAGNOSTIC	PROGRAM	FOR	TME	1800	CWETEI

PART NO. 2242261 PAGE 3

4K EDIT CONTROL

0649 00 44000745		L	KNBY	WAIT FOR NOT BUSY	8C20 <b>2730</b>
0648 00 0C000A28	* *EV1				80202740
	<b>A</b>	, r	KPCD	SET KEYBOARD PROCEED	RC202750
064D 00 0C000A1A	KEY2 XIO	) Ł	KSNS	SENSE STATUS	8C202760 8C202770 8C202780 8C202790 8C202800 8C202810 8C202820 8C202820
064F @ 1001	C1 A		1	SENSE SIATUS	80202770
0650 00 40280656		L	KEY3,+Z	GO READ KEYBOARD	8C202780
0652 0 1005					8C202800
0653 00 40100648	SLA		5		8C202810
0653 00 4C10064B 0655 0 70F7	B S C MD X			BR IF NOT PROCEED	8C202820
			KE Y2		80202830
0656 00 OCOOOA2A	KEY3 XIO	L	KRED	READ KEYBOARD	8C2028 <b>50</b>
0459.0 (105	<b>£</b>				0030000
0658 0 610B 0659 0 C300	KFMS LDX	1	11	CHECK FOR DEC OR SPC	8C2O2860 8C2O2870
065A 00 F5000A33		5	KKED-KRED	FETCH CHAR READ	8C202880
0659 0 C300 065A 00 F5000A33 065C 00 4C1806B3	FUR BSC	LI	KECOD-1	BR IF DEC DR SPACE	80202890
	*	L	KDEC \$ 4-	BR IF DEC DR SPACE	8C202900
065E 0 71FF	MDX	1	-1	•	80202920
065F 0 70F9	MDX	_	KFMS1		8C2O2930
0660 00 64000770	•				8C202940
0662 00 F4000129	LD	Ļ	KEYFM	CHECK FOR FORM	8C202950
0664 00 4C18067D	EUK	Ļ	KONE		8C202960
	*******	***	・本本本本本本本本本 ・本本本本本本本本本	BKANCH IF FURM I	80202970
0666 0 6106	KFM2 LDX	1	6	CHECK FOR HEX	80202980
0667 0 C300	KFM21 LD	3	KRED-KRED	FETCH CHAR READ	80203000
0664 00 F5000A3E	EOR	Ll	KECAD-1		8C203010
000 4C180GBB	328	L	KHEX++-。	BR IF ALPHA	8C203020
066C 0 71FF	MDA	•	_1		8C203030
066D 0 70F9	MDX	4		CHECK FOR FORM  BRANCH IF FORM 1  CHECK FOR MEX FETCH CHAR READ  BR IF ALPHA  FETCH CHAR READ  BR IF NOT PERIOD A PLUS OR MINUS  BR IF NOT + OR -	8C203040
066E 0 C300	LD	3	KRED-KRED	FETCH CHAR READ	8C 203050
0671 00 F4000A31	EOR	L	KECPD		8C203070
0673 0 C3FC	BSC	L 1	KFMO.Z	BR IF NOT PERIOD	80203080
0674 0 6201	I D A	3 1	-4	A PLUS OR MINUS	80203090
0675 0 1240	SLCA	2 (	D		80203100
0676 00 F4000B7F	EOR	L	(8000		8C 5U 31 3U
0678 00 44200720	BSI	L	KERR, Z	BR IF NOT + OR -	80203130
0670 0 7022	LD	L	CTPLT		8C203140
33.0 0 1022	MDX ◆	*	PNE		8C203150
	********	***	*****	******	8C203160
067D 0 6108	KFMO LDX	1 8	1	CHECK UC SP CHRS GET CHR READ CK AGAINST TBL CHAR FOUND DECR IX 1 LOOP CK LC SP CHRS GET CHR READ CK AGAINST TBL	86203170
067E 0 C300	KF401 LD	3 0		GET CHR READ	80203180
06/F 00 F5000A2C	EOR	LI K	N-1	CK AGAINST TBL	8C203200
0683 0 71FF	B S C	L K	MDX++-	CHAR FOUND	8C203210
0684 0 70F9	MOV	1 -	1	DECR IX 1	8C203220
	*		FMUI	LOUP	8C203230
0685 0 6107 0686 0 C300 0687 00 F5000A47	LDX	1 7		CK IC SP CHRS	8C203240
0686 0 C300	KFMO2 LD	3 0		GET CHR READ	8C203260
0687 00 F5000A47 0689 00 4C1806B1				CK AGAINST TBL	8C2O3270
0688 0 71FF			MPX++-	CHARACTER FOUND	8C203280
068C 0 70F9	MDX MDX	1 -		DECR IX 1	80203290
068D 0 C300	LD	3 0	FMO2	LOOP GET CHR READ	80203300
068E 00 F4000A21		L K		OCI CHR REAU	8C2O3310 8C2O3320
0690 00 442006CC	851		SPC.Z		8C203330
0692 0 6201	•				8C203340
0692 0 6201 0693 0 C3FA	LDA	2 1			8C203350
0694 0 1002	LD Sla	3 -(	•		8C203360
0695 0 1240	SLCA	2 0			8C203370
0696 00 F4000B7F	EOR		3000		8C2O3380 8C2O3390
0698 00 4420072D				BR IF NOT 1 OR ZERO	8C203400

DATE 04N0Y66 EC NO. 415233

PROG ID 08C2-0

	4K ED	IT CONTROL				
	04.04		•			
	069A 069B		LD	3 -6		80203410
	0690		SRA			9C203420
		00 C4000A55	ST	3 -6		8C203430
	069F	00 EC000A2C	FD	L KLRT		8C2O344 <b>0</b> 8C2O345 <b>0</b>
	06 A 1	00 65000A1D	KPNE OR	L KONE		8C203460 .
	06A3		LDX			8C203470
	06A4 (	00 44000768	STC 8 S 1			80203480
	06A6	00 40000647	850		******	80203490
			*	e KETO	BRANCH	8C203500
	06A8 (		KHOX LD	3 0	FETCH CHAR	8C2O3510
	06A9 (	00 F4000A32	EOR		TETCH CHAR	8C203520
	OCAB (	00 4C2006B1	DSC		BR IF NUT + SIGN	80203530
	OGAD (		LD	3 0	MAKE + = /3000	8C2O3540
	OGAF C		SRA	12	, 5000	8C203550
	0680		SLA	12		8C2O356 <b>0</b> 8C2O35 <b>70</b>
	0681 0		STO	3 0		8C203580
	0682 0		KMPX MDX MDX		ADJ IX I	8C203590
				KDEC1		8C203600
			******	*****	*****	
	_		•			8C2O362 <b>O</b>
	0683 0	7118	KDEC MDX	1 KECOD-KEC	GD CORCT XR1	8C2O3630
	0/0/0		*		COKE KKI	80203640
	0684 0	4003	KDEC1 BSI	KSTO	GO STORE + PRT	8C203650 SRC 8C203660
	0685 0	7091				8C203660 8C203670
	••••	1015	MDX	KE AO	RETURN FOR NEXT	8C2O368Q
			8			8C2O3690
	0686 0	7123	KHEX MDX	1 45545 455		80203700
	0687 0	70FC	MDX	1 KECAD-KEC KDEC1	GD GO PRINT A - F	8C203710
				****	*****	8C2O372O
			•			8C203730
*	0688 0	0000	•		STORE AND PRINT RTN	80203740
	0689 0	0000 C300	KSTO DC	/0000		8C2O3750
	068A Q	EBFF	ro	3 0		8C2O3760 8C2O3770
	06BB 0	1804	OR Sra	3 -1		3C203780
	068C 00	4C9806B8	BSC	I KSTO.+-		8C203790
			•	1 421044	BR IF SECOND SPACE	80203800
	OGBE OC	C5000A4F	LD	L1 KTGLT-1	FETCH TYPR CHAR	8C203810
	0600 00	ECOOOA2C	OR	L KONE	TETEN TIPK CHAR	80203820
	0604 0	65000A1D	LDX	L1 KOUT		80203830
	0605 00	44000768	STO	1 0		8C203840
	0000	44000758	<b>₽</b> 8.21	L KTYP	TYPE CHARACTER	8C 2O 3850 8C 2O 386 <b>O</b>
						8C2O3670
	06C7 00	740101DE	MDX	L KINC.1	UPDATE KEYBOARD BUF	8C203880
		7301	MDX	L KIWC,1		8C203890
			*	•		8C2O39OO
	06CA 00	4C 8006B 8	BSC	I KSTO	RETURN TO USER	80203910
			****	****	·李安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安	80203920
	06CC 0	0000	*		SPECIAL CHAR CHECK	80203930
	wee o	0000	KSPC DC	/0000		8C2O3940 8C2O3950
	06CD 0	C300	LD	3 0		80203960
	06CE 00	F4000A4F		3 O L KCMA	FETCH KEY CHARACTER	80203970
	0600 00	4C2006E8		L KSPC5,2	RP TE NOT A COURS	80203980
	0488		8		BR IF NOT A COMMA	8C203990
	06DZ 00	C40001DE		L KIWC		80204000
	00 4000	94000789 44280720		L K0002		8C204010
,		74280720		L KERR,+Z	BR IF COMMA TOO SOON	8C204020 8C204030
(	06D8 0	C 3FF	*	9 8		8C 204040
(	06D9 O	1804	LD Sra	3 -1	FETCH LAST ENTRY	80204050
	06 DA 00	4C1806DF		4 L KSPC2,+-	90 15 50405	8C204060
(	06 DC 00	740101DE		L KIWC, +1	BR IF SPACE LAST	80204070
				······································		, 8C204080
						/

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PROG ID 08C2-0

IBH MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

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IBM MAINTENANCE I	DIAGNOSTIC PROGRAM FOR TH	E 1800 SYSTEM	PART NO. 2242261	OO	75M MA 9 11 2 2 11 11 11 11 11 11 11 11 11 11 11			1
4K EDIT CONTROL			PAGE	0 0	IDM MAINTENANCE	DIAGNOSTIC PROGRAM FOR TH	E 1800 SYSTEM	PART NO. 2242261
W TOTAL CONTINUE				1, 0	4K EDIT CONTROL			PAGE 44
				$\circ$ $\circ$				
06DE 0 7301 06DF 00 C4000A2C	MDX 3 +1		80204090					1
06E1 0 D3FF	KSPC2 LD L KONE STO 3-1	SET FIELD PROTECT MK	8C204100	$\circ$		*		80204770
06E2 00 65000700	•	JE. VILLE PROTECT MR	8C204110 8C204120		072D 0 0000	KERR DC /0000		8C204780
06E4 00 44000768	LDX L1 KCOMA BSI L KTYP	GO PRINT + DR-	8C204130	$\circ$	072E CO 65000A7A 0730 0 4037	LDX L1 KFELD BSI KTYP	PRINT FIELD CANCELLD	8C204790 8C204800
06E6 00 64000647	# LDX L KEYO		8C204140 8C204150	į.		•	TYPE SRC	8C204810 8C204820
	•	RETURN FOR MORE CHR	8C204160 8C204170	$\circ$ $\circ$	0731 0 7301 0732 00 740101DF	MDX L KIWC.1		80204830
06E8 0 C300	**************************************	*********	8C204180		0734 0 61FF 0735 0 C3FF	LDX 1 -1		8C204840 8C204850
06E9 00 F4000A46	EOR L KERSE	FETCH KEY CHARACTER	8C204190 8C204200	( ) 7	0736 00 40040647	KERRI LD 3 -1 BSC L KEYO.E	ERASE TO FIELD MARK BR IF FIELD MARK	80204860
06EB 00 4C200703	BSC L KSPC9,Z	BR IF NOT ERASE CHAR	8C204210		0738 0 COOB	<b>\$</b>	ON IT FIELD MARK	8C204870 8C204880
06ED 00 C40001DE 06EF 00 4C080647	LD L KINC		8C204220 8C204230	, "	0739 0 D300	LD KNEG Sto 3 0		80204890
	BSC F KEAO**	BR IF WORD COUNT ZERO	8C204240		073A 0 73FF 073B 00 74FF01DE	MDX & KIWC1	DECREMENT WORD COUNT	8C204900 8C204910
06F1 0 C3FF 06F2 00 4C040647	LD 3-1 BSC L KEYO,E	CHECK PROTECT BIT	8C204250 8C204260		073D 0 70F7	MDX & KINC1 MDX KERRI		8C204920 8C204930
06F4 0 1801	SRA 1	BR IF LAST WORD PROTO	8C204270 8C204280		073E 00 C40001DE	FD F KIMC		8C204940
06F5 00 4C0406FB 06F7 0 73FF	BSC L KSPC6.E MDX 3-1	DO BKSP OVER PERIOD	80204290		0740 00 4C100647 0742 00 4C000641	BSC L KEYO		8C204950 8C204960
06F8 00 74FF01DE 06FA 0 1000	MDX L KINC1	DECREASE WORD COUNT	8C2O4300 8C2O4310	010	0744 0 FFFF	BSC L KEYOG KNEG DC -1	CONSTANT MINUS ONE	8C2O4970
06FB 00 65000702	NOP KSPC6 LDX L1 KBKSP		8C204320	0   0		************	(李章李章章李章李章李章李章李章李章李章李章李章李章李章李章李章李章李章李章李	8C204980 8C204990
06FD 0 406A	BSI KTYP	DO A BACKSPACE SRC	8C204330 8C204340	0 0		•	*	8C205000
06FE 00 4C000647	BSC L KEYO	RETURN°	8C204350		0745 0 0000	* KNBY DC /0000	TYPR NOT BUSY RTN	8C205010 8C205020
0700 0 8000	****************** KCDMA DC /8000	*******	8C204360 8C204370		0746 0 6A1B	STX 2 KNBYS+1		8C205030 8C205040
0701 0 8101	DC /8101	COMMA RESPONSE	8C204380 8C204390	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	0747 00 6600000A 0749 00 6E000767	LDX L2 10 STX L2 KTIME	SET TIME COUNTER	8C205050
0702 0 1101	KBKSP DC /1101		8C 204400	(**)	074B 00 66007FFF 074D 00 0C000A1A	KNBYO LDX L2 /7FFF		8C205060 8C205070
0703 0 C300	KSPC9 LD 3 0	FETCH KEY CHAR	8C204410 8C204420		074F 0 1004	KNBY1 XIO L KSNS SLA 4	CHECK BUSY	8C205080
0704 00 F4000A45 0706 00 4418072D	EOR L KRENT BSI L KERR,+-	BR IF ERASE FIELD	8C204430		0750 00 4C100761 0752 0 72FF	BSC L KNBY5	BR IF NOT BUSY	8C205090 8C205100
0708 0 C300	•		8C204440 8C204450		0753 0 70F9	MDX KNBYI	CHECK AGAIN	8C2O5110
0709 00 F4000A47	LD 3 KRED-KRED EOR L KENDK	FETCH CHAR PEAD	8C204460		0754 00 74FF0767 0756 0 70F4	MDX L KTIME1	DECREMENT TIMER	8C205120 8C205130
0708 00 40200647	BSC L KEYO.Z	BR IF NOT EOF KEY	8C204470 8C204480			•		8C205140 8C205150
070D 00 C40001DE	LD L KIWC	FETCH WORD COUNT	8C204490 8C204500		0757 00 6600075D 0759 00 6E000003	LDX LZ KNBY4 STX LZ 3	TYPR HUNG UP BUSY	8C205160
070F 0 901A 0710 00 4428072D	S KEYNO BSI L KERR,+Z	TOO FEW ENTRIES	8C204510	4	075B 0 3002 075C 0 70EA	WAITZ WAIT 2	1816 HUNG UP BUSY	8C205170 8C205180
0712 00 658001DE 0714 00 C50001DE	LDX II KIWC	CLEAR FIELD PROT BIT	8C204520 8C204530	e =		e MDX KNBY+2		8C205190
0716 0 1804	KSPCA LD L1 KIWC SRA 4		8C204540	. •	075D 00 6600012C 075F 00 6E000003	KNBY4 LDX L2 300 STX L2 3	RESTORE RESTART	8C205200 8C205210
0717 0 1004 0718 00 D500nlDE	SLA 4 STO LI KINC		8C204550 8C204560			•		8C205220 8C205230
071A 0 71FF	MDX 1 -1		8C204570 8C204580		0761 00 66000000 0763 00 00000024	KNBY5 LDX L2 /0000 XID L KRDY	EXIT RESET	8C205240
0718 0 70F8	MDX KSPCA		8C204590		0765 00 4C800745 0767 0 0000	BSC I KNBY	vese!	8C205250 8C205260
0716 0 6355	•		8C204600 8C204610		0.01 0 0000	KTIME DC /0000	TIME COUNTER	8C205270
071C 0 C3FF	• LD 3 −1	REMOVE SP BEFORE TERMINATE	8C204620		94.	*		8C205280 8C205290
071D 0 1804 071E 00 4C200725	SRA 4	· -	8C204630 8C204640	•		*	<b>#</b>	80205300
0720 0 73FF	BSC L KSPCE,Z MDX 3-1	BR IF NO SPACE THERE DECREMENT WORD COUNT	8C204650			<b>\$</b> <b>\$</b>	PRINTER OUTPUT RTN	8C205310 8C205320
0721 00 74FF01DE 0723 0 7001	MDX L KIWC,-1	Total Roll Cook!	8C204660 8C204670		07/ 5 0 0000			9C205330 8C205340
0724 0 4008	MDX KSPCE BSI KERR		8C204680 8C204690		0768 0 0000 0769 00 6D000A26	KTYP DC /0000 KTYP1 STX L1 KPRT	FAME BOTALENA AND	8C205350
0725 0 CO1E 0726 0 D300	KSPCE LD KNEG STO 3 0	SET TERMINATION	8C204700		0768 0 4009	*		8C205360 8C205370
0727 00 44000AA0	BSI L LDOIT	LET LLOYD DO IT	8C204710 8C204720			BSI KNBY	WAIT OFR NOT BUSY	8C205380
0729 0 0000 0728 0 0000	KEYFM DC /0000 KEYND DC /0000	FCRM NUMBER CHARS / WORD	8C204730		076C 00 0C000A24 076E 0 1005	KTYP5 XID & KRDY		8C205390 8C205400
0728 00 40000629	EXIT BSC L KEY96		8C204740 8C204750		076F 00 4C100773	SLA 5 BSC & KTYP6,-	DO IT DEADA	8C205410
	***********	******	80204760	4 1	0771 0 3001	WAITE WAIT	DOTAL PER DUE DE DESCRIPTION	8C20542 <b>0</b> 8C20543 <b>0</b>
DATE ALLOWS						•		80205440
DATE 04 NO V66 EC NO. 41 5233			PROG ID OSC2-0	7	DATE ALMOVAS		•	,

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242261	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242261 Page 54
4K EDIT CONTROL	PAGE 5	0 0	4K EDIT CONTROL	PAGE 5Å
0772 0 70F9 MDX KTYPS	8C 205450		0786 00 4C8007AF SIA BSC I SILSE	8C206130
0773 00 0C000A26 KTYP6 XIO L KPRT OUTPUT ONE CHAR 0775 0 C100 LD 1 0 0776 00 4C840768 BSC I KTYP,E EXIT IF MSG PRIM	8C205460 8C205470 8C205480 8C205490	(3   *,	0788 0 00F0	8C206140 8C206150 8C206160
0778 0 7101 MDX 1 1 0779 0 70EF MDX KTYP1	8C205500 8C205510 - 8C205520		CHECK CHANNEL VALUE  O7EA O 0000 SCHE DC /0000	8C206170 8C206180 8C206190
077A 0 0000 CKYNE DC 0 077B 00 C40001DF LD L KEYIN GET ENTRY 077D 0 F018 EDR YES IS IT Y LC	SE 8C205530 8C205540 8C205550	4.1	07EA 0 0000 SCHE DC /0000 07BB 00 C400013E LD L BINRY 07BD 0 B00C CMP S000B 07BE 0 7002 MDX SCHER	8C206200 8C206210 RC206220
077E 00 4C180794 BSC L CKYND.+- YES 0780 00 C40001DF LD L KEYIN GET ENTRY 0782 0 F014 EDR YES1 IS IT Y UC	8C205560 8C205570 8C205580	!	07BF 0 7005 MDX SCH1 07C0 0 7004 MDX SCH1	8C206230 8C206240 8C206250
0783 00 4C180794 BSC L CKYNO,+- YES 0785 00 C40001DF LD L KEYIN GET ENTRY 0787 0 F010 EOR NO IS IT N LC	8C205590 8C205600 8C205610		07C1 0 F007 SCHER EOR S000F 07C2 00 4C1807C5 BSC L SCH1, ← 07C4 0 70E4 MDX SILER ERROR	8C206260 8C206270 8C206280 8C206290
0788 00 4C180792 BSC L CKYN1,+- YES 078A 00 C40001DF LD L KEYIN GET ENTRY 078C 0 FOOC EDR NO1 IS IT N UC 078D 00 4C180792 BSC L CKYN1.+- YES	8C205620 8C205630 8C205640	-	07C5 00 C400013E SCH1 LD L BINRY 07C7 00 4C8007BA BSC I SCHE	8C206300 8C206310 8C206320
0780 00 4C180792 BSC L CKYN1++- YES  078F 00 44800132 BSI I SER NOT Y OR N  0791 0 0888 DC PCKBE	8C205650 8C205660 SRC 8C205670	( . ! -	07C9 0 000F	8C206330 8C206340 8C206350
# 0792 00 7401077A CKYN1 MDX L CKYNE,1 INCR RETURN 0794 00 4C80077A CKYND BSC I CKYNE EXIT	8C205680 8C205690 8C205700 SX 8C205710	0 .	07CB 0 0000	8C20636 <b>0</b> 8C20637 <b>0</b> 8C20638 <b>0</b>
0796 0 2020 YES DC /2020 LOWER CASE Y 0797 0 8060 YES1 DC /8060 UPPER CASE Y	8C205720 8C205730 8C205740	0 -	07CF 00 4480012C BSI I KEY 07D1 0 0000 SER1 DC /0000 ADDRESS	8C206390 8C206400 8C206410
0798 0 4100 NJ DC /4100 LOWER CASE N 0799 0 8120 ND1 DC /8120 UPPER CASE N	8C205750 8C205760 8C205770	o ·	07D2 0 0000 DC /0000 ID 07D3 00 4C800441 BSC I SRTRY	8C206420 8C206430 8C206440
	8C20 <b>5780</b> 8C20 <b>5790</b> 8C20 <b>5800</b>	0 .	SET UP ROUTINE  X2= CARD NUMBER	8C 206450 8C 206460 8C 206470 8C 206480
079B 0 COFE LD SSUEE 079C 0 901C S K0002 079D 00 D4000441 STD L SRTRY	8C2O5810 8C2O5820 8C2O5830	0	07D5 0 0000 SECSE DC 0 9 07D6 00 C48007D5 LD 1 SECSE GET MSG ADRS 07D8 0 D024 STO SIMB SAVE	SE 8C206490 8C206500 8C206510
079F 00 4C80079A BSC 1 SSUEE 079A SSEUR EQU SSUEE  CHECK IF INTERRUPT LEVEL	8C205840 8C205850 8C205860	ο ·	07D9 0 6A24 SE1 STX 2 SECB SET CD NO 07DA 0 6924 STX 1 CPID SET PID 07DB 0 6B24 STX 3 NOEN SET NO OF ENTRIES	8C206520 8C206530 8C206540
# IS TO GREAT  07A1 0 0000 SILE DC  07A2 00 C400013E LD L BINRY  07A4 0 1008 SLA 8	8C205870 8C205880 8C205890	<i>c.</i>	07DC 0 C024 LD STBF1 GET EDIT IMAGE ADRS 07DD 00 84000440 A L STBF 07DF 0 D003 STO SE2+1 SET	8C206550 8C206560 8C206570
07A5 0 B008 CMP S1700 07A6 0 7002 MDX SILER GREATER.ERROR 07A7 0 7004 MDX SIL1	8C205900 8C205910 8C205920 8C205930	5 1	07E0 00 658007FD	8C206580 8C206590 8C206600
07A8 0 7003 MDX SILI 07A9 00 44800132 SILER BSI I SER	8C205940 8C205950 8C205960		07E6 0 C018 LD CPID GET PID 07E7 0 D300 STO 3 O SET 07E8 0 C015 LD SECB GET CD NO 07E9 0 D301 STO 3 1 SET	8C206610 8C206620 8C206630
07AB 0 0BAD DC SE002 07AC 00 4CB007A1 SIL1 BSC I SILE	8C205970 8C205980 8C205990	~	07E9 0 D301 STO 3 1 SET 07EA 0 C015 LD NOEN GET NO ENTRIES 07EB 0 D302 STO 3 2 SET 07EC 0 7303 MDX 3 3 INCR IX 3	8C206640 8C206650 8C206660
07AE 0 1700	8C20600 <b>0</b> 8C2060 <b>10</b> 8C2060 <b>20</b>	, ~	07ED 0 C100 SE3 LD 1 0 GET AN ENTRY 07EE 0 0300 ST0 3 0 SET 07EF 0 7101 MDX 1 1 INCR MSG ADRS	8C206670 8C206680 8C206690 8C206700
OTAF 0 0000 SILSE DC /0000	8C20603 <b>0</b> 8C20604 <b>0</b> 8C20605 <b>0</b>	, -	07F0 0 7301 MDX 3 1 INCR BFR ADRS 07F1 0 72FF MDX 2 -1 DECR NO ENTRIES 07F2 0 70FA MDX SE3 LOOP	8C206710 8C206720 8C206730
07B0 00 C400013E LD L BINRY 07B2 0 1004 SLA 4 07B3 0 B004 CMF S00F0	8C206060 8C206070 8C206080	, -	07F3 00 C4000440 LD L STBF 07F5 0 800C A K0003 ADD 3 07F6 0 8009 A NDEN ADD NO ENTRIES	8C206740 8C206750
0782 0 1004 SLA 4	8C2060 <b>70</b>	,	07F5 0 800C A K0003 ADD 3	

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## 601 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   1518 DC   0 CANTON  OF 0 COSO   151	IBM MAI	TENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242261	0 0	<b>224</b>	
077 0 0000 1 10 0 0 0 10 10 0 0 10 10 10 10	4K EDIT	CONTROL	PAGE	olo	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242261
## 14					4K EDIT CONTROL	F # 54
## 10 000	07FD 0	OOO SINB DC O MCC 4000		0 0		
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0001 00 07000203	0802 0	003 K0003 DC 3 CONSTANT 2		0 0	0849 0 71FF HDX 1 -1	8C207520
0015 00 C-000-040   10   10   10   10   10   10   10	0803 0 0804 00	70003KB KINI DC 0			0848 0 70F7 MDX PHKY2 SKIP WHEN DONE	80207540
000.0 0 73PF	0806 00	400043D LD L TERM GET FFFF	80206890		084C 00 74000885 MDX & PHDSW+0 CK FEX-DEC SW	8C207560
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011 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		OO DKYB DC O	8C207050		085D 0 7002 MDX PHKY9+2	8C207710
011 0 0000 0000 0000 0000 0000 0000 00		STD PHKX1 SAVE A + Q	8C207070	0   -	OBSF O TOFA MDX PHKY4	8C207730
0011 0 COSOGRED		OS STO HKYB	8C207090	0 -	0861 00 D6000001 PHKYF STO L2 1 PLACE IN BINDY BUSE	8C207750
## HAND DE	081E 00	0008CD LD L PDKX1 CONSTANT 10			0863 00 7401013D MDX L BWC+1 BUMP WORD COUNT	6C207770
091 0 0000		ENTER COMMON SECTION	8C207120 8C207120	010	•	8C207790
0821 0 0000 HK3 D C 0 85001100 0000 HK3 D C 0 85001100 0000 HK3 D C 0 85001100 0000 HK3 D C 0 85001100 0000 HK3 C 0 85001100 0000 0000		HEX KEYBOARD TO BINARY RT	8C207140		0866 0 801A A PHKYS ADD ONE FOR COLOR	8C207810
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0827 0 CORE   DOSE   DO	0823 0 (	5F LD PHKX7 CONSTANT ZERO	8C207180		0869 00 67800880 LDX 13 PHKK6	8C207850
0827 0 284F	0825 0 (	SE TO SHKX8	8C207200		ORED O 4830 EOR PHKX6 CK FOR TERMINATOR	8C207870
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0028 00 27800821	082 <b>9 0</b> 6	STX 1 PHKY6+1 SAVE X1 STX 2 PHKY7+1 SAVE X2	8C207240	(1)	EXIT FROM RY	
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0835 00 D400013D			8C207340	3 .	*	8C208000
*** CONVERT NUMBER TO HEX 8C207390	0834 0 1 0835 00 D	100130	8C207360		087C 0002 PHKX1 BSS 2 SAVE A + 0	8C208020
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083B 0 6A0C	0837 00 6 0839 00 7	0013D PHKY5 LDX 12 BWC SET X2 TO NEXT	8C207410		0883 0 0000 PIKX7 DC 0 CONSTANT FFFF	8C208080
083D 00 6580087E	083B 0 6	C STX 2 PHKY1+1	8C207430 °		0884 0 0010 PHKXB DC 16 CONSTANT 16	8C208100
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IBM MAINTENANCE DIAGNUSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242261	0 0	TOM MATAITENANCE COLORES
4K EDIT CONTROL	PAGE 7	00	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242: PAGE
		O O	4K EDIT CONTROL
0887 0 D840 STD PDKWA ZERO DUT WORK AREA	80208170 .	_	08CA 0 0000 PDKX4 DC 0 CDNS (00008000
0888 0 COF5 LD DUKKS 057 0110	8C208180 8C208190 8C208200	(", ,")	08CB 0 8000 DC /8000 8C208850 8C208860
0889 00 84000904 CMP L PCKX1 COMPARE TO 9	8C208210 8C208220	C. O	08CD V 000A PDKX1 DC 10 8C208870 8C208880
088C 0 7001 MDX +1	8C 20 8 2 3 0 8C 20 8 2 4 0	$C_{+}O_{-}$	08CF 0 03E8 DC 1000 8C208890 8C208890
088E 0 D001 STO PDKY2+1	8C20825 <b>0</b> 8C20826 <b>0</b>		08D1 0 000A DC 10 8C208910 08D2 0 0064 DC 100 8C208920
0891 00 66800848 LDX 12 PHKY1+1	8C2082 <b>70</b> 8C2082 <b>80</b>	• •	08D3 0 03E8 DC 1000 8C208930 08D4 0 2710 DC 10000 8C208940 08D5 0 0005 PDKX3 DC 8C208950
0895 0 6100 LDX 1 0	8C208 <b>290</b> 8C208 <b>300</b>	, ····	08D5 0 0005 PDKX3 DC 5 CONS 5 8C208950 8C208960 8C208970
0897 00 A50008CC M L1 PDKX2 MULT BY POWER	8C208310 8C208320		8C 208980 8C 208990
0898 0 7104 PDKYJ MDX PDKYH CH/WD GRT 4	8C 208330 8C 208340	<i>(</i> )	80209000
089C 0 1000 SLA 0 089D 0 882A AD BOXUA	8C208350 8C208360	171	08D6 0 0000 pres no 8C209030
089E 0 D829 STD PDKWA 089F 0 7101 MDW 1	8C208370 8C208380		08D7 0 6827 STX 3 PCKBX+1 SAVE X3 8C209040
08A0 0 72FF MDX 2 -1 08A1 0 73FF MDX 3 -1	8C208390 8C208400 8C208410	(1)	08D8 0 D029 STO PCKBA SAVE NUMBER 8C209060 08D9 00 C48008D6 LD I PCKB GET LIMIT CK 8C209070 08D8 0 D001 STO PCKB1+1
08A2 0 70F3 MDX PDKY3 08A3 0 7003 MDX PDKY6 08A4 0 18D0 PDKYH RTF 16	8C208420 8C208430	0   -	08DC 00 67000000 PCK81 LDX L3 0 SET X3 TO LIM CK 8C209080
OBAS O AOZA M PDKX1+3 MULTIPY BY 10.000	8C208440 8C208450		08E0 0 F021 EOR PCKBA 8C209100 08E1 00 4C1808F8 BSC 1 PCKBA 8C209110
MDX PDKYJ  CK FOR SIGNED NUMBER	8C208460 8C208470	* *	08E3 0 73FF MDX 3 -1 SKIP IF ILLEGAL 8C209130
08A7 0 C0D6 PDKY6 LD PHKX2 08A8 00 B4000904 CMP L PCKY1 CONS 0	8C208480 8C208490	r	08E5 00 C400087E
OBAA O TOLA MOX POKYE ERROR TOO GREAT	8C208500 8C208510	m an	08E8 00 4C2008F5 BSC L PCKB4, Z GO TO ERROR IF NOT 9 8C209170
OBAC O 7009 MDX PDKY7 CK SIGN	8C208520 8C208530	1	08EC 00 4C1808FC BSC L PCKBX-2,+- 8C209190
CK FOR CH/WD GREATER  OBAD O CODO  LD PHKX2	8C208540 8C208550	.   *	08EF 0 F016 EDR PCKX3 8C209210
OBAE O BOZ6 CMP PDKX3 CONS 5 OBAF O 700F MDX PDKYB	8C208570	-	08F2 00 C4000B94 LD L PCKX4 GU TO ERROR, NO 4 - 3C209230
08B0 0 7001 MDX ++1 08B1 0 700F MDX PDKYA GD TO CK FOR /7FFF	8C208580 8C208590	_	08F5 00 44800132 PCKB4 BSI I SER IMPROPER KEY CODE 8C209260
SINGLE PRECISION NUMBER	8C208600 8C208610 8C208620		08F8 0 73FF PCK83 MDX 3 -1 8C209270 08F9 0 1000 SLA 0 8C209280
0882 00 66800848 PDKYF LDX 12 PHKY1+1	8C208630 8C208640	-	08FA 0 6B08 STX 3 PCKBB 8C209290 8C209300
OBBS O TOAB MOX PHKYF	8C208650 8C208660		08FC 00 740108D6 MDX L PCKB,1 8C209310 08FE 00 67000000 PCKBX LDX L3 0 RESTORE X3
O8B6 O C2OO PDKY7 LD 2 O  O8B7 OO 4C1808BF BSC I PDKY8.+- BRANCH IE DOS ANNO	8C208670 8C208680	:	0900 00 4C8008D6 BSC I PCKB 8C209340
08B7 00 4C180BBF BSC L PDKY8,+- BRANCH IF PDS NUMB 08B9 0 10A0 SLT 32 CHANGE SIGN 08BA 0 980D SD PDKHA	8C208690 8C208700		0902 0 0000 PCKBA DC 0 ORIGINAL NUMBER 8C209360 0903 0 0000 PCKBB DC 0 CONVERTED NUMBER 8C209370
08BB 0 DAOD PDKY9 STD 2 0 08BC 00 7402013D MDX L BWC,2	8C208710 8C208720	-	0905 0 8000 PCKX2 DC /8000 + 8C209380
OBBE O TOAG MEX PHKYH	8C208730 8C208740		0906 0 4000 PCKX3 DC /4000 = 8C209390 8C209400 8C209410
08CO O 70FA MDX PDKY9	8C208750 8C208760	7 -	8C209420
08C2 0 9807 SD PDKY4 CONS 000008000	8C208770 8C208780	, ~	FONCH EDIT CARD DUTPUT ROUTINE 8C209440
08C3 00 4C2808B2 BSC L PDKYF.+Z BRANCH TO SINGLE PREC	8C208790 8C208800		0908 00 DC00098C STD L PECX1 SAVE REGISTERS 80209460
08C8	8C208810 8C208820	• • • •	0908 0 1810 SRA 16 8C209480
08C8 0002 PDKWA BSS 2 WORK AREA	8C208830 8C208840	a	090C 0 6955 PECYF STX 1 PECY1+1 8C209490 090D 0 6A56 STX 2 PECY2+1 8C209500 090E 0 6B57 STX 3 PECY3+1 8C209510

occonoció con contrato de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio de la contratorio della c

4K EDIT CONTROL		PART NO. 2242261 Page B	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  4% EDIT CONTROL	PART NO. 2242261 PAGE BA
THE COLUMN			0 0	THE CONTROL	
090F 00 4480012C 0911 0 089F 0912 0 0000	BSI I KEY PRINT EDIT CARD DC PECXF * MESSAGE DC 0  READ A CARD AND VERI	8C209540 8C209550 8C209560 8C209570	0 0	0953 0 4061 BSI PED PUNCH CARD S 0954 00 440009E0 BSI & PPECU PRINT THE EDIT CARD 0956 00 C4000810 LD L DTSM GET SMS 0958 00 4C280961 BSC L PECYI+2 BRANCH IF NOT CARDS 0958 0 0835 XID PECKC STACKER SELECT 0958 0 083C XID PECKT FEED A CARD	RC 8C210210 8C210220 8C210230 8C210240 8C210250 8C210260
0913 00 66000442 0915 00 650001E0 0917 00 0C000B0E	+ THAT IT IS BLANK  LDX L2 SEIB SET X2 = ED IMA: LDX L1 KEYIN+1 X1 = OPT REG  PECY7 XIO L RDSW READ DATA SWS LD L DTSW GET SWS	8C209620 8C209630 8C209640	0 0	095C 0 0837 PECYC XID PECX5 SENSE DSW 095D 0 1801 SRA 1 095E 00 4C04095C BSC L PECYC.E 0960 0 0835 XID PECX6 RESET DSW 0961 00 650000000 PECY1 LDX LI 0 RESTORE REGS	8C210270 8C210260 8C210290 8C210300 8C210310 8C210320
0918 00 4C280921 0910 0 1001 091E 00 4C280921 0920 0 7007 0921 00 44000AED 0923 00 C4000810 0925 0 1001	BSC L PT++Z BRANCH IF P T SLA 1 BSC L PT++Z BRANCH IF BOTH MDX NTPT NOT PAPER TAPE PT BSI L PPT PUNCH LEADER LD L DTSM GET SWS SLA 1	8C209650 8C209660 8C209670 8C209680 SRC 8C209690 8C209700 8C209710		0963 00 66000000 PECY2 LDX 12 0 0965 00 67000000 PECY3 LDX 13 0 0967 0 2000 PECDS LDS 0 0968 0 C823 LDD PECX1 0969 00 4C800907 BSC I PECOR EXIT FROM ROUTINE  * SET CARD NUMB IN DUTPUT 0968 0 C201 PECY8 LD 2 1	8C210330 8C210340 8C210350 8C210360 8C210370 8C210380 8C210390
0926 00 4C10093C 0928 0 0868 0929 00 4C04097E 0928 0 0866 092C 0 0867	BCC L PECYE BRANCH IF NOT BE  NTPT XIO PECX5 SENSE DSW  BSC L PECY6 -E XFER IF NOT REAL  XIO PECX4 READ A CARD  PECY4 XIO PECX5 SENSE DSW  SRA 1 CK BUSY	DTH 6C209720 8C209730	0 0	O96C O E821 OR PECK3 ADD IN ED	8C210400 RC 8C210410 8C210420 8C210430 8C210440 RC210450
092E 00 4C04092C 0930 0 180C 0931 00 4C040984 0933 0 0862	BSC L PECY4,E XFER IF BUSY SRA 12 BSC L PECY8,E XFER IF ERROR DI XIO PECX6 RESET DSW  CK FOR BLANK CARD	8C209780 8C209790 N 8C209800 8C209810 8C209820 8C209830	0 0	096F 0 1888 SRT 8 0970 0 1810 SRA 16 0971 0 1088 SLT 8 0972 0 D01C STD PECKE SAVE 0973 0 4028 BSI PBIHX CONV AND STORE S MOVE DATA TO OUTPUT BUFF	8C210460 8C210470 6C210480 8C210490 RC 8C210500 8C210510
0934 0 1810 0935 0 6350 0936 00 EF0001DF 0938 0 73FF 0939 0 70FC	SRA 16 LDX 3 80 PECY5 OR L3 KEYIN HDX 3 -1 HOX PECY5 BSC L NTPT, 2	8C209840 8C209850 8C209860 8C209870 .8C209880 8C209890 8C209900		0976 0 7201 MDX 2 1 BUMP 1MAG BUF ADDR 0977 00 74FF098F MDX L PECXE ₀ -1 DECREMENT ENTRIES/CD 0979 0 70FA MDX PECYD 097A 0 403A BSI PED PUNCH A CARD S	8C210520 RC 8C210530 8C210540 8C210550 8C210560 RC 8C210570 RC 8C210580
093C 0 1810	BLANK OUT OUTPUT BUF	8C2O99 <b>1O</b>	, ,	097C 0 7203 MDX 2 3 097D 0 70A5 MDX PT+2 BRANCH 097E 00 4480012C PECY6 BSI I KEY	8C210590 8C210600 8C210610 8C210620
0930 0 6380 093E 00 D7000230 0940 0 7301 0941 0 70FC	LDX 3 -80 PECYA STO L3 KEYIN+81 MDX 3 1 MDX PECYA	8C209950 8C209960 8C209970 8C209980 8C209990	'	0980 0 0895 DC PECX9 0981 0 0000 DC 0 0982 0 3003 WAIT3 WAIT 3 1442 NOT READY =RD) * *PUSH START TO RETRY 0983 0 7093 MDX PECY7 BRANCH	8C210630 8C210640 8C210650 8C210660 8C210670
0942 00 6700FFB0	LDX L3 -80 SET X3 = COL CD SET E INTO OUTPUT ARE LD L PBIX2	NTROL 8C210000 8C210010 EA 8C210020 8C210030		0984 00 4480012C PECY8 BSI I KEY 0986 0 0895 DC PECX9 0987 0 0000 \$ DC 0 1442 READ ERROR	8C210680 8C210690 8C210700 8C210710
0946 0 D100 0947 0 7301	STO 1 0 MDX 3 1  SET PID INTO OUTPUT		<u> </u>	0988 0 08UD XIO PECX6 RESET DSW 0989 0 3004 WAIT4 WAIT 4 PUSH START TO REREAD 098A 0 70RC MDX PECY7 BRANCH	8C210720 8C210730 8C210740 8C210750
0948 0 C200 0949 0 1008 0948 0 4051	LD 2 0 SLA 8 8SI PBIHX CONV TO HEX AND • STORE IN OUTP	8C210120 8C210130	,	098C 0000 BSS E 0 096C 0002 PECXI BSS 2 SAVE A + Q 098E 0 ED00 PECX3 DC /ED00 098F 0 0000 PECXE DC 0 ENTRIES PER CARD 0990 0 0000 PECXC DC 0 STACKER SELECT IOCC 0991 0 1480 0992 0 01E0 PECX4 DC KEYIN+1 READ A CARD IOCC	8C210760 8C210770 8C210780 8C210790 8C210800 8C210810
0948 0 C201 094C 00 F400089E 094E 00 4C200968 0950 00 C400089E 0952 0 4049	CK FOR END OF ED CD (  LD 21  EOR L PECXD  BSC L PECYB, Z BRANCH IF NOT EI  LD L PECXD SET FFFF EDIT EI  BSI PBIHX CONV AND STORE	8C210150 8C210160 8C210170 ND CD 8C210180	·	0992 0 01E0	8C210820 8C210830 8C210840 8C210850 8C210860 8C210870 8C210880
			0 0	DATE 04N0Y66 EC No. 415233	PROG ID 08C2-0

99 0 98 0 98 0 99 0 99 0 99 0 99 0 80 0 80	CONTROL  1402 01E0 1500  0000 1800  6911 6A12 6104 1810 1084 D001 66000000 C6000135 D7000230 7301	* • • PBIH	STX STX LDX SRA SLT	/15	IN+1 P 00 P ARY TO HE P Y1+1 S Y2+1 S	UNCH A CARD IOCC  X CARD IMAGE RT  UT BIN HORD TO BE CONVERTED IN Q R		8C210890 8C210900 8C210910 8C210920 8C210930 8C210940 8C210950 8C210960 8C210960	· 2242261
99 0 98 0 98 0 98 0 0 0 0 0 0 0 0 0 0 0	1402 01E0 1500 1500 0000 1800 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	* • • PBIH	X DC RTF STX STX LDX S SRA SLT	81N/ 0 16 1 PBI' 2 PBI'	IN+1 P 00 P ARY TO HE P Y1+1 S Y2+1 S	X CARD IMAGE RT UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210900 8C210910 8C210920 8C210930 8C210940 8C210950 8C210960	
OD 000000000000000000000000000000000000	01E0 1500 0000 18D0 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	* • • PBIH	X DC RTF STX STX LDX S SRA SLT	81N/ 0 16 1 PBI' 2 PBI'	IN+1 P 00 P ARY TO HE P Y1+1 S Y2+1 S	X CARD IMAGE RT UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210900 8C210910 8C210920 8C210930 8C210940 8C210950 8C210960	
98 0 98 0 99 0 99 0 99 0 99 0 81 0 81 0 81 0 81 0 81 0 81 0 81 0 81	01E0 1500 0000 18D0 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	* • • PBIH	X DC RTF STX STX LDX S SRA SLT	81N/ 0 16 1 PBI' 2 PBI'	IN+1 P 00 P ARY TO HE P Y1+1 S Y2+1 S	X CARD IMAGE RT UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210900 8C210910 8C210920 8C210930 8C210940 8C210950 8C210960	
98 0 9C 0 9D 0 9F 0 A0 0 A1 0 A2 0 A3 0 A4 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6 00 A6	0000 1800 6911 6A12 6104 1810 1084 D001 66000000 C6000035 D7000230 7301	* • • PBIH	DC X DC RTE STX STX LDX 3 SRA SLT	/150 BIN/ 0 16 1 PBIY 2 PBIY	00 ARY TO HE P	X CARD IMAGE RT UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210900 8C210910 8C210920 8C210930 8C210940 8C210950 8C210960	
9E 0 9D 0 9F 0 AO 0 A1 0 A2 0 A4 00 A6 00 A8 00 AB 0	0000 1800 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	e e PBIH	X DC RTE STX STX LDX SRA SLT	BINA 0 16 1 PBIN 2 PBIN 1 4	ARY TO HE P *** *** *** *** *** *** ** ** ** ** *	UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210910 8C210920 8C210930 8C210940 8C210950 8C210960	
9D 0 9F 0 AA1 0 A2 0 A3 0 A4 00 A6 00 A8 00 A8 00 AC 0	1800 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	e e PBIH	STX STX LDX SRA SLT	0 16 1 PBI 2 PBI 1 4	P * Y1+1 S Y2+1 S	UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210930 8C210940 8C210950 8C210960	
9D 0 9F 0 AA1 0 A2 0 A3 0 A4 00 A6 00 A8 00 A8 00 AC 0	1800 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	₽ PBIH ₽	STX STX LDX SRA SLT	0 16 1 PBI 2 PBI 1 4	P * Y1+1 S Y2+1 S	UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210940 8C210950 8C210960	
9D 0 9F 0 AA1 0 A2 0 A3 0 A4 00 A6 00 A8 00 A8 00 AC 0	1800 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	PBIH	STX STX LDX SRA SLT	0 16 1 PBI 2 PBI 1 4	P * Y1+1 S Y2+1 S	UT BIN WORD TO BE CONVERTED IN Q R AVE XI		8C210950 8C210960	
9D 0 9F 0 AA1 0 A2 0 A3 0 A4 00 A6 00 A8 00 A8 00 AC 0	1800 6911 6A12 6104 1810 1084 D001 66000000 C60000135 D7000230 7301	•	STX STX LDX SRA SLT	16 1 PBI 2 PBI 1 4	* Y1+1	CONVERTED IN Q R		80210960	
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9F 0 A0 0 A1 0 A2 0 A3 0 A4 00 A6 00 A8 00 A8 00 AB 0 AB 0	6A12 6104 1810 1084 D001 66000000 C6000135 D7000230 7301	-	STX LDX 3 SRA SLT	2 PBI1	Y1+1 S Y2+1 S	AVE X1			
AO O A1 O A2 O A3 O A4 OO A6 OO A8 OO AB OO AB O	6104 1810 1084 D001 66000000 C6000\35 D7000230 7301	PBI Y	STX LDX 3 SRA SLT	2 PBI1	/2+1 S		(CU	80210980	
A1 0 A2 0 A3 0 A4 00 A6 00 A8 00 A8 00 A8 0 AB 0 AB 0	1810 1084 D001 66000000 C6000135 D7000230 7301	PB1 Y	3 SRA SLT			AVE X2		8C210990 8C211000	
A2 0 A3 0 A4 00 A6 00 A8 00 AB 0 AB 0 AC 0	1084 D001 66000000 C6000135 D7000230 7301	P 61 4	SLT	16	3	ET LOOP CONTROL		8C211010	
A3 0 A4 00 A6 00 A8 00 AA 0 AB 0 AC 0	D001 66000000 C6000135 D7000230 7301				С	ONV CHAR TO HEX		80211020	
A4 00 A6 00 A8 00 AA 0 AB 0 AC 0	66000000 C6000135 D7000230 7301		STO	4 *+1				8C211030	
\8 00 \8 0 \8 0 \C 0	D7000230 7301		FOX	rs o				80211040	
A O AB O AC O	7301		LD	L2 KECC		ET HEX EQUIV		8C211050 8C211060	
AB O AC O AD O			STO	T3 KEAI	N+81			8C211070	
C O			MDX	3 1 0	81	UMP TO NEXT OUTPU	T	80211080	
	71FF		MDX	1 -1	N	OP .		AC211090	
	70F3		MDX	PBIY	3			80211100	
E O	7301		MDX	3 1	Pt	UT BLANK IN OUTPU	T	8C211110 8C211120	
1 00	65000000 66000000	PBIYI		LI O	R	ESTORE X1		8C211130	
3 00	4C80099C	PBI YZ	BSC	LZ O I PBIH	R E	ESTORE X2		8C211140	
		•	036	s roin	^			8C211150	
					PUNCH A	CARD ROUTINE		8C211160	
5 0	0000	PED	DC	0			SE	8C211170 8C211180	
8 00	C4000B10 4C280B11		LD	L DTSW		T SWS	- <del>-</del>	8C211190	
A O	1001		B S C S L A	L HB05	· +Z BR	RANCH IF P T		8C211200	
B 00	4C280B11		BSC	L HB05	. 4 Z A D	ANCH IF BOTH		8C211210	
D 00	C400022F	PEDEN		L KEYI		TOTAL PUIN		8C211220	
FO	E81F		OR	PEDX	1 *	AT END OF OUTPUT		8C211230 8C211240	
	D400022F 08D1	DER PA	STO	L KEYI	N+80			8C211250	
	4C0409D1	PED Y4	BSC	L PEDY		NSE DSW		80211260	
50	OBCA		XIO	PECX	<b>.</b>	ER IF NOT RDY ACKER SELECT		8C211270	
	ORD3		XID	PEÇX		NCH CARD		8C211280 8C211290	
	08CC 1801	PEDY2		PECX:	5 SE	NSE DSW		8C211300	
	1801 40040967		SRA BSC	1 0500		BUSY		8C211310	
B 0	180C		SRA	L PEDY2	cet XF	ER IF BUSY		8C211320	
00 4	4C0409D8		BSC	L PEDYS	3.E XF	ER IF ERROR ON		8C211330	
E 0 (			XIO	PECX		SET DSW		8C211340 8C211350	
- 00 4	4C8009B5	PEDEX	8 SC	I PED		IT	SX	8C211360	
10 (	D8C2	PEDY1	YIO	855-		N.C.C		8C211370	
	4480012C	+ CU 11		PECXS	> 5E	NSE DSW		8C211380	
60 0	0895		DC	PECXS	)			8C211390	
	0000		DC	0				8C211400 8C211410	
	3006 7054	WAI TO		6	14	42 NOT RDY=PUNCH)		8C211410	
	TOEA		MDX	PEDY4	•			8C211430	
3 0 0	)88D	PEDY3	xın	PECX6	<b>.</b>	CET NEW		8C211440	
00 4	480012C		BSI	I KEY	KE:	SET DSW		8C211450	
_	895		DC	PECX9	)			8C211460 8C211470	
	000		DC	0				8C211470	
0 3	1007	WAIT7	MAIT	7		42 ERROA AFTER		BC211490	
9 7	OE 3	-	MDX	PEDY4		PUNCHING		8C211500	
		•		FEU14				8C211510	
0 0	008	PEDXI	DC	/0008	ENI	OF PUNCH BIT		8C211520 8C211530	
		•			-			8C211540	
		•						8C211550	
		•						8C211560	
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80211570 CONVERT CCD TO EBDIC + KEY 8C211580 80211590 09E0 0 0000 PPECD DC /0000 80211600 09E1 0 6928 STX 1 FPEY5+1 SAVE XRS + A + Q 80211610 09E2 0 6A2C STX 2 PPEY6+1 80211620 09E3 0 682D XTZ 3 PPEYT+1 80211630 09E4 0 D833 STD PPEX3 80211640 80211650 80211660 09E5 00 650001DF LDX LI KEYIN INITIALIZE ROUTINE 8C211670 09E7 00 6D0001DE STX LI KINC 8C211680 09E9 0 6380 LDX 3 -80 80211690 09EA 0 6202 80211700 09EB 0 61EF PPEY4 LDX 1 -17 RESTORE KECOD PUINTR 80211710 09EC 00 C7000230 PPE YZ LD L3 KEYIN+81 FETCH KEYBD CHAR 80211720 09EE 00 F5000A45 EOR L1 KEC00+17 80211730 09F0 0 1804 09F1 00 4C1809F5 8C211740 BSC L PPEYL .-BR IF COMPARE 09F3 0 7101 8C211750 MDX 11 80211760 09F4 0 70F7 PPEY2 MDX TRY NEXT CHAR 8C211770 80211780 80211790 09F5 00 C5000A79 PPEYL LD L1 KTILT+16 PACK 2 EBDIC CHARS 80211800 09F7 0 1008 SLA 80211810 09F8 0 18D8 RTE 24 8C211820 09F9 0 72FF MOX 2 -1 SKIP IF DONE TWO CHA RS 80211830 09FA 0 7019 MOX PPEY3 FETCH NEXT CHAR 80211840 09FB 0 6202 LDX 2 2 80211850 09FC 0 18D0 RTE 16 80211860 09FD 00 D48001DE STO I KINC PLACE IN OUTPUT AREA 80211870 09FF 00 740101DE MDX L KINC.1 NEAT STORAGE AREA 80211880 0A01 0 F015 EDR OA02 00 4C200A14 8C2118G0 BSC L PPEY3,Z BR - NOT DBLE BLANK 80211900 0A04 0 61FF PPEYS LDX 1 -1 SET TERM 80211910 CA05 OU 6D8001DE STX 11 KIWC 0A07 00 4480012C 80211920 BSI I KEY GO PRINT WHOLE EDIT 80211930 0409 0 01DF DC KEYIN MSG AREA OAOA O 0000 OAOB O CBOC 80211940 DC 80211950 LDD PPFK3 RESTORE XRS. A AND O 80211960 OAOC 00 6500000 PPEY5 LDX L1 /0000 8C211970 OADE 00 66000000 PPEY6 LDX L2 /0000 80211980 OA10 00 67000000 PPEY7 LOX L3 /0000 8C211990 0A12 00 4C8009E0 BSC I PPECD EXIT TO USER 8C212000 86212010 OA14 0 7301 PPEYS MOX 3 1 SKIP IF DONE 80212020 0A15 0 70D5 MDX PPEY4 80212030 0A16 0 70ED MDX PPEY8 80212040 80212050 0A17 0 4040 PPEX2 DC DOUBLE SPACE EBDIC 80212060 OA18 2000 PPEX3 BSS E 2 SAVED A AND Q 80212070 8C212080 80212090 80212100 KEYBOARD CODES 80212110 OALA 0000 555 E 80212120 0A1A 0 0000 KSNS DC /0000 SENSE-NO RESET BC212130 OAIB O 0F02 /0F02 80212140 OA1C 0 0000 KMSG DC /0000 MESS ADRS 8C212150 OAIC KECGD EQU KMSG OA1D 0 0000 80212160 KOUT DC /0000 ROT-TLT OUTPUT TABLE 80212170 OA1E 0 0000 /0000 80212180 OA1F 0 0000 /0000 80212190 OA20 0 0004 K0004 DC CONSTANT 80212200 80212210 0A21 0 4400 KL DC /4400 80212220 0A22 0 0000 KAD DC ACC 80212230 0A23 0 0000 DC Q REG 80212240

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

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 New   New   New   New   New   New   New   New   New   New   New   New   New   New	PRINT COMMAND  KBD PROCEED COMMAND  READ KBD COMMAND  CONSTANT 1  UPPER CASE N  SPACE  O  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F  ERASE FIELD  ERASE CHAR END OF MESSAGE LOWER CASE N  Y  *********************************	8C212260 8C212280 8C212290 8C212310 8C212310 8C212330 8C212350 8C212350 8C212350 8C212370 8C212380 8C212400 8C212440 8C212440 8C212440 8C212440 8C212450 8C212450 8C212450 8C212550 8C212550 8C212550 8C212550 8C212550 8C212550 8C212550 8C212550 8C212550 8C212550 8C212550 8C212560 8C212560 8C212570 8C212560 8C212570 8C212580 8C212590 8C212590 8C212590 8C212650 8C212650 8C212650 8C212650 8C212650 8C212650 8C212650 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 8C212660 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	4K EDIT CONTROL		į. ·•			- <b>-</b>	0	0	4K EDIT CONTROL					PAGE	114	
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	0A99 CO 4C800A94 0A98 O 0A99	RDSK1 BSC I RDSK RDSXO DC RDSK1	EXIT RETURN ************************************	\$X ***	8C213610 8C213620 8C213630		c	0	OAD3 O FFFF	LTERM DC	/FFFF	ALL BITS		SC214290 8C214300		
Ţ		<b>•</b>			8C213640 8C213650 8C213660		0	0		*				8C214310 8C214320 8C214330		
	OA9C O OAB1 OA9D O OADC	LRAIT DC DONT	CTOR TBLS BY FORM NO. FORM O		8C213670 8C213680		0	0		\$ \$ \$				8C214340 8C214350		
	OASE O OAD4	DC LRTF1 DC LRTF2	2		8C213690 8C213700 8C213710				OAD4 0 0000 OAD5 0 DO02		LCHBW	SET CHR / WD	SE	8C214360 8C214370 8C214380		
		*			8C213720 8C213730		· · · · · · · · · · · · · · · · · · ·	<b>∴</b>	OAD6 00 44800137 OAD8 0 0000 OAD9 0 0437	ECHBM DC	PHKYB	GO CONVERT TO H	RD	8C214390 8C214400		
		•			8C213740 8C213750		- Carrier Control	-	OADA 00 4C800AD4	DC BSC I	ZERO LRTF2	DISPLACEMENT AD EXIT	DR SX	8C214410 8C214420		
	0405 0 000	•			8C213760 8C213770 8C213780		ī <b>)</b>	t*		* *				8C214430 8C214440 8C214450	,	
	0A9F 0 0000 0AA0 0 0000	LWKA DC LDDIT DC	WORK STORAGE AREA		8C213790 8C213800		0 ]	í	OADC 0 0000	* LRTF1 DC			• -	8C214460 8C214470		
. 0	0AA1 0 6200 0AA2 00 6E00043F	LDDIY DC LDX 2 0 STX L2 LGROP	RESET GROUP CNTR		8C213810 8C213820 8C213830				OADD 0 DO03 OADE 0 4006	STO I	L CHBD LTRFX	SET CHR / WD GO TO SETUP AND	S E CK	8C214480 8C214490 8C214500		
0	DAA4 00 65800AA0 DAA6 0 C101	LDX II LDOIT	LD CHR / WORD CHT		8C213840 8C213850	•		7	OADF 00 44800136 OAE1 0 0000 OAE2 0 0437	FCHBD DC	PDKYB	GO CONVERT TO D CHR / BINARY WO	EC SRC	8C214510 8C214520		
0	DAA7 0 DOF7 DAA8 0 6901 DAA9 00 65800000	STO LWKA STX 1 LWCLD+1 LWCLD LDX 11	SAVE IT		8C213860 8C213870	,	0	O	OAE3 00 4C800ADC	DC 2 BSC 1	ZERO LRTF1	DISPLACEMENT AD	DR SX	8C214530 8C214540		
0	DAAB 00 45800A9C DAAD 00 74020AAO	BSI II LRAIT DONTI MOX L LODIT,2	BRANCH TO RTN Incr return		8C213880 8C213890 8C213900		0 •	0		\$ \$				8C214550 6C214560 8C21~570		
	DAAF 00 40800AA0 DAB1 0 0000	BSC I LDOIT	EXIT		8C213910 8C213920		1	٠	OAE5 0 0000 OAE6 0 40CD	* LTRFX DC BSI L	LBGNR	GO SET UP FOR F	S E	8C214580 8C214590		
	DAB2 00 4COODAAD	BSC L DONTI			8C213930 8C213940 8C213950	•	ì		OAE7 00 67800A9F OAE9 0 7301	LDX I3 L MDX 3 I	L WKA L	LD CHAR / WC CN	Ŧ	8C214600 8C214610 8C214620		
•	DAB4 0 0000	\$ IRCND DO			8C213960 8C213970				OAEB OO 4CBOOAES	BSI L	LWCC LTRFX	GD TO CHECK FOR EXIT	M S X	8C214630 8C214640		
0	DAB5 00 650001DE	LBGNR DC LDX L1 KIWC LD 1 O	LD INPUT TBL ADDR		8C213980 8C213990		,	•		•				8C214650 8C214660 9C214670	V	
0. 0.	DAB8 00 D400043E DABA 00 6680043E	STO L LWC LDX 12 LWC	SAVE MC		8C214000 8C214010 8C214020		0			* *	<b></b> .	· 14 g # * * * * * * * * * * * * * * * * * *		8C214680 8C214690		
0	DABC 0 7201 DABD 00 7402043E DABF 00 4C800AB4	MDX 2 1 MDX L LWC+2 BSC I LBGNR	ADD 2 TO WC Exit		8C214030 8C214040		0		OAED 0 0000	* PPT DC 0	)	CH LEADER	SE	8C214700 3C214710 8C214720		
	<del>-</del> •	* *			8C214050 8C214060 8C214070		4		OAEE 0 6303 OAEF 0 CO09 OAFO 0 DO18	PPT1 LDX 3 3 PPT1A LD W	DCT	SET IXING SET WD CT	JE	8C214730 8C214740		
O.	AC1 0 0000	DATA LERR DC O	WRONG ERROR		8C214080 8C214090				OAF1 00 C7000AF9 OAF3 0 D014	LD L3 L	CHOUT CEADE-1 CIOUT	GET PATTERN SET		8C214750 8C214760		
0/	AC2 00 44800132 AC4 0 0888	BSI I SER DC PCKBE	DATA WRONG	SRC	8C214100 8C214110 8C214120				0AF4 0 4008 0AF5 0 73FF	BSI P MDX 3 -	PUTAP -1	PUNCH TAPE DECR IX 3	SRC	8C214770 8C214780 8C214790		
		•			8C214130 8C214140				OAF6 0 70F8 OAF7 00 4C800AED	MDX P BSC I P	PTIA	LOOP	sx	8C214800 8C214810		
0#	AC5 0 0000 AC6 0 6B01	LWCC DC STX 3 LD01+1	SE		8C214150 8C214160 8C214170				OAF9 0 0019 OAFA 0 7F00	WDCT DC 2 LEADE DC /	?5 ?7F00	WD CT Patterns		8C214820 8C214830 8C214840		
04	AC7 00 C5000000 AC9 00 44200ACD	LDO1 LD L1 BSI L LHTRM,Z	LD SPACE BR IF NOT SPACE		8C214180 8C214190				OAFB 0 0000 OAFC 0 7F00	DC /	70000 7F00	··· <del>·</del>		8C214850 8C214860		
0.	ACB 00 4C800AC5	BSC I LWCC	EXIT	SX	8C214200 8C214210					* *	PUNC	H TAPE		8C214870 8C214880		
	APR &	•			8C214220 8C214230 8C214240		· ( )		OAFD 0 0000 OAFE 0 080B	PUTAP DC 0 BCK XIO S	EN55	SENSE	SE	8C214890 8C214900 8C214910		
	ACD 0 0000 ACE 0 F004	LMTRM DC EOR LTERM		SE	8C214250 8C214260			~	OAFF 0 1808 OBOO 00 4CO40AFE OBOZ 0 0809	SRA 8 BSC L B		BRANCH = NOT REA	DY	8C214920 8C214930 8C214940		
	ACF 00 44200AC1	BSI L LERR,Z	BR IF ERROR		8C214270		3		0803 00 74F0809	U P				W. 711010		

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OBOS OO SCBOORFD BSC I PUTAR			* · O	4K EDIT CONTROL	
0808 0000 855 5	EXIT SX	8C214970 8C214980	olo	0854 00 D400013F STO L BINRY+1 SAVE	
0808 0 0000 XIJUT DC 0 0809 0 0000 CHOUT DC 0 0808 0 0000 SEN55 DC 0	OUTPUT AREA WD CT	8C214990 8C215000 8C215010	0 0	0858 00 F400043D	8C215650 8C215660 8C215670
0808 0 1F01 DC /1F01 0800 0 0808 PUNK DC XIOUT	SENSE TOCC PUNCH TOCC	8C215020 8C215030 8C215040	!	085C 00 C4000142 LD L BINRY+4 GET NO ENTRIES 085E 0 8022 A FOUR ADD 4	8C215680 8C215690 8C215700
OBOF G O240 PC (C240)	RD SWS TOCK	8C215050 8C215060	(° 0	0860 0 1008 SLA 8 MOVE 0861 00 D400013E STD E RINRY CAVE	8C215710 8C215720
0810 0 0000 DTSW DC 0	STORAGE	8C215070 8C215080 8C215090	* ~	0865 00 66000000 LBOA LDX L2 0 SET IXING 0867 0 6500013E LBO9 LDX L1 BINRY	8C215730 8C215740 8C215750
0811 0 6909 HRDS STY 1 547.1		8C215100 8C215110		OB68 0 D09F STO XIOUT SET OB69 0 C014 LD ONE GET 1	8C215760 8C215770
0812 0 6A0A STX 2 EXT1+1 0813 0 6B11 STX 3 EXT2+1 0814 00 6500FFR0		8C215120 8C215130 8C215140	1 .	OBSC 0 4090 STO L CHOUT SET OBSC 0 4090 BSI PUTAP PUNCH TAPE	8C215780 8C215790 SRC 8C215800
0816 00 C5000230 LO L1 KEYIN+81 0818 00 4C20082C 8SC L HBOSA-7	SET IXING GET A WD	8C215150 8C215160	1)	OBSE 0 C100	8C215810 8C215820 8C215830
081A 00 65000000 EXT LDX L1 0 081C 00 66000000 EXT1 LDX L2 0 081E 00 C4000141 LD L BINRY+3	RESTORE IXING	8C215170 8C215180 8C215190	$C_{1}$	0871 0 0097 STO CHOUT 0872 0 408A BST PUTAR	8C215840 8C215850
0822 00 44180AED BSI   PPT-4-	CK FOR END CD	8C215200 8C215210		OB73 0 C100 LD 1 0 GET WD OB75 0 D092 SLA 8 SET 2ND HALF	SRC 8C215860 8C215870 8C215880
0826 0 COE9 LD DTSW	GET SWS	8C215220 8C215230 8C215240	0	0876 0 C007 LD ONE GET 1 0877 0 D091 STO CHOUT SET NO CT	8C215890 8C215900
0828 00 4C1009CF BSC L PEDEX,- 082A 00 4C0009BD BSC L PEDEN	BRANCH IF NOT BOTH	8C215250 8C215260 8C215270	C	0878 00 44000AFD BSI L PUTAP PUNCH TAPE 0878 0 730E MDX 1 I INCR IX 1	8C215910 ° SRC 8C215920 8C215930
0B2D 0 D022 STO PCAM 0B2E 0 7101 HB06 MDX 3 1	DECO. THE	BC215280 BC215290		OB7C 0 70F1 MDX LB07 LOOP OB7D 0 709C MDX EXT EXIT	8C215940 8C215950
082F 0 7001 MDX HB07 0830 0 7022 MDX LB06 0831 0 6204 HB07 LDX 2 4	CONTINUE PUNCH CARD	8C215300 8C215310 8C215320		087E 0 0001	8C215960 8C215970 8C215980 8C215980

SET 4 CHRS 80215330 HB10 SLA MOVE CHR 8C215340 STO TEMPI SAVE 80215350 LD LI KEYIN+81 GET WD 8C215360 8 SC L LB06.+-BRANCH IF O 8C215370 нтэв LDX 3 0 SET COUNTER 8C215380 BSC + Z IS IT NEG MDX 3 9 80215390 YES 80215400 SLA REMOVE ZONE BRANCH IF O 8C215410 BSC L HTBZ,+-8C215420 MDX 3 1 INCR CTR BRANCH IF NEG 80215430 S+ X STH 3 SE LECTH 80215440 SLA MOVE BIT 8C215450 HT081-1 MDX BRANCH HTBX STX 8C215460 3 TEMP SAVE CT 8C215470 TEMP GET CT HTBZ OR 9C215480 TEMP1 ADD TO SAVED 8C215490 MDX 1 1 DECR IX 1 8C215500 MOX 2 -1 DECR IX 2 80215510 HB10 LOOP 8C215520 LDX 13 PCAM SET IX 3 8C215530 STO L3 BINRY+2 SAVE 8C215540 MDX L PCAM, 1 INCR LOC 8C215550 8C215560 8C215570 MDX H806 LOOP PCAM DC TEMP DC 0 STORAGE 8C215580

PUNCH EDIT

GET E

H8100

TEMP1 DC

1806 LD

DATE EC NO. 04N0Y66

0832 0 1004

0833 0 DOIE

0B38 0 6300

0839 0 4828 083A 0 7309

0B3B 0 1003

083E 0 7301

0841 0 1001

0842 0 70FB

0843 0 6800

0844 0 COOC

0845 0 E80C

0846 0 7101

0847 0 72FF

0848 0 7089

0850 0 0000

0851 0 0000

0852 0 0000

0853 0 CO2C

~ ~ *

C

0849 00 67800850

0848 00 D7000140

084D 00 74010850 084F 0 700E

083C 00 4C180845

083F 00 4C280843

0834 00 C5000230

0836 00 4C180853

0865-0 PROG ID

80215590

8C215600

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80215630

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0880 0 8100

0B81 0 0004

0882 0 0300

0883 0 COFE

0886 0 6203

GB87 0 7000

OB94 O FFFF

089E 0 FFFF

OBAC O FFFF

OBBA O FFF

0800 Q FFFF

OBD9 O FFFF

OBE4 O FFFF

08E5 0 0000

OBE6 0 3005 OBE7 00 4C8008E5

058A

0388

0891

0895

089F

08 A 8

OBAD

0886

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OBC4

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0884 00 D400013E

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80216010

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80216030

80216040

8C216050

80216060

80216070

80216080

80216090

80216100

80216110

80216120

80216130

8C216140 8C216150

80216160

80216170

30216180

80216190

80216200

80216210

80216220

80216230

80216240

8C216250

80216260

80216270

8C216280

80216290

80216300

8C21630 8C216310

SRC

GET 0300

SET IX 2

BRANCH

SET

. EOO3 CNTRL-IL! EGAL.

• ENTRY.

/FFFF
• E005 CNTRL-1442 ER.

. \$\$A001 CHTRL-EDIT .

.E002 CNTRL-ENTRY T.

.COOO CHTRL-ENTER 2.

. DIGIT PID TO BE E.

.E004 CNTRL-FORMAT .

RELOAD REQUIRED

.A002 END OF PRG.

H8100 DC

FOUR DC

TREE DC

PCKBE EBC

PCKX4 DC

PECX9 EBC

PECXD DC

PECXF EBC

SEOO2 EBC

SM33 EBC

LEMO1 EBC

HLTE DC

WAITS WAIT

SM2

LD

STO

LDX

EBC

FRC

DC

EBC

DC

EBC

EBC

EBC

EBC

BSC I

DC

END

L808

/8100

/0300

TREE

LB09

/FFFF

/FFFF

/FFFF

.DITED.

.FR.

/FFFF

O 5 HLTE STARI

.CD LIST.

.00 LARGE.

L BINRY

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  IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM
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                                                                                                                                   4K EDIT CONTROL
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                                                                                                                                   KEYNO
                                                                                                                                                      063F, 070F
 SYMBOL
         VALUE
                                                                                                                                   KEYDG
                                                                                                                                                      0742
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                                                                                                                                  KEY98
                                                                                                                                           062D
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                                                                                                                                   KEY99
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0788,0780
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         0818
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                    0136,081A
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         OABI
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         0881
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                    085E
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         0811
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                    0988.0988
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         OBE5
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                   0853
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                   0620
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KEYIN
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4K EDIT CONTROL	PAGE 14	O	( )	4K EDIT CONTROL	DIAGROSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242261 Page 144
*		0	()			
K0003 0802 <b>07F5</b> K0004 0A20 K3095 05E2 058B ₊ 05B9		o		PDKY7 0886 PDKY8 088F	08AC 08AF, 08B7	
K8000		c	,	PDKY9 0888 PECOR 0907	08C0 05D <b>0,0</b> 969	
LBGNR OAB4 0438,0ABF,0AE6 LBOA 0B63 0B5F LBO6 0B53 0B30,0B36				PECOS 0967 PECXC 0990 PECXD 089E	090A 095A, 09C5 094C, 0950	
LB07		()	()	PECXE 098F PECXF 089F	0972 <b>, 0977</b> 0911	
LBO9 OB65 OB87 LCHBD OAE1 OADD LCHBW OAD8 OAD5				PECX1 098C PECX3 098E PECX4 0992	0908 <b>,</b> 096 <b>8</b> 096C 0928	
LCHBM OADB OAD5 LDDIT OAAO 0727,0AA4,0AAD,0AAF LDOI OAC7 OAC6				PECX5 0994 PECX6 0996	0928,092C,095C,09C2,09C7,09D1 0933,0960,0988,09CE,09D8	
LEADE OAFA GAF1 Lemo1 obda				PECX7 0998 PECX8 099A PECX9 0895	095B 0906	
LERR OAC1 0439, OACF LGROP 043F OAA2 LMTRM DACD 043B, UAC9, OAD1		- Company		PECYA 093E PECYB 096B	0980,0986,09D4,09DB 0941 094E	
LRAIT DAGC DAGE LRTF1 DADG DAGD, DAEB		ì		PECYC 095C PECYD 0974	095E 0979	
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LWC 043E OABB, OABA, OABD LWCC OAC5 043A, OACB, OAEA		0	5	PECY2 0963 PECY3 0965	090D 090E	
LWCLD OAA9 OAA8 IWKA OA9F ° OAA7.OAE7 MTRM 0438		0	_ 1	PECY4 092C PECY5 0936 PECY6 097E	092E 0939 0929	
NO 0798 0787 Noen 0800 07DB,07E4.07EA.07F6			(	PECY7 0917 PECY8 0984	0983,0984 0931	
NG1 0799 078C NTPT 0928 0920,093A		c	1	PED 0985 PEDEN 098D PEDEX 09CF	0953,097A,09CF 082A	•
ONF OB7E OB69,0870,0876 PBIHX 099C 094A,0952,096D,0973,0975,0983 PHIX2 0A43 0944		ε	i	PEDX1 090F PEDY1 09D1	0828 098F 09C3	
P91Y1 09AF 099E P81Y2 0981 099F P81Y3 09A1 09AD		:	F	PEDY2 09C7 PEDY3 09D8 PEDY4 09C2	09CC	
P81Y3		c	F	PHDSW 0885 PHKX1 087C	09D7,09DE 081C,0824,084C 0819,0822,0878	
PCKBA 0902		0		PHKX2 087E	082F,083D,0841,084F,0858,0865,0888,0893,08A7,08AD,	
PCKBE		~	P	PHKX3 087F PHKX4 0880 PHKX5 0881	0832 0833,083F,0867,0868,0869 0866,088D	
PCK83 08F8 08E1 PCK84 08F5 08E8,08F0		(*)	P	PHKX6 0882 PHKX7 0883	086C 0823	
PCKX1 0904 0889,08A8,08E7 PCKX2 0905 08EB PCKX3 0906 08EF			° P	PHKX8 0884 PHKYB 0137 PHKYC 0846	0625 0AD6 0826	
PCKK4 0B94 08F2 PDKWA 08C8 0887,089D,089E,08B4,08BA,08BF,08C1			P P	PHKYD 0826 PHKYF 0861	0820 0885	
PDKX1 08CD 081E, JBA5 PDKX2 08CC 0897 PDKX3 08D5 08AE			P	PHKYH 0865 PHKYS 0877 PHKY1 0847	08BE 0827 0838, 0891, 08B2	
PDK X4 08CA 08C2 PDK YA 08C1 08B1			P	PHKY2 0843 PHKY3 0852	084B 083C+0856	
PDKY8 0136 0ADF PDKYE 0865 088B,08AA			P	PHKY4 085A PHKY5 0837 PHKY6 0871	085F 086E 0828	
PDKYF 0882 08C3 PDKYH 08A4 089A PDKYJ 089B 08A6		()	PI PI	PHKY7 0873 PHKY8 0875	0829 082A	
PDKY1 0886 084E PDKY2 088F 088E		5	C PI	PECD 09E0	085C, 085D 0954, 0978, 0AL 2	
PDKY3 0896 08A2 PDKY6 08A7 08A3		8	PI	PEX2 0A17 PEX3 0A18 PEY1 09F5	OAO1 O9E4, OAOB O9F1	

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                     0A15
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                                                                                                                                       0851
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                     09E1
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                                                                                                                                                  0583,0500,0806,0820,0858
  PPEY7
          0A10
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                    09E3
                                                                                                                               TREE
                                                                                                                                       0882
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  PPEY8
          0A04
                    OA16
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                                                                                                                                       043C
  PPT
          OAED
                    0921, 0AF7, 0822
                                                                                                                               WAITI
                                                                                                                                       0771
                                                                                                                                                 3001
  PPT1
          OAEE
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                                                                                                                                       075B
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  PPTIA
         OAEF
                    OAF 6
                                                                                                                               WAIT3
                                                                                                                                       0982
                                                                                                                                                 3003
  PT
          0921
                    0918,091E,097D
                                                                                                                               WAIT4
                                                                                                                                       0989
                                                                                                                                                 3004
          OBOC
                    0802
                                                                                                                               WAITS
                                                                                                                                       OBF6
                                                                                                                                                 3005
  PUTAP
         OAFD
                    OAF4, CBO6, OB6C, OB72, OB78
                                                                                                                               WAIT6
                                                                                                                                       0906
                                                                                                                                                 3006
  RDSK
          0A94
                    0138, 05A6, 0A99
                                                                                                                               WAIT7
                                                                                                                                       09DD
                                                                                                                                                 3007
  RDSK1
         DAGG
                                                                                                                               WAITS
                                                                                                                                       050F
                                                                                                                                                 3008
  RDSH
          OBOE
                    0917
                                                                                                                               MCC
                                                                                                                                       043A
  RDSXO
         RPAG
                    0A95
                                                                                                                               WDCT
                                                                                                                                       OAF9
                                                                                                                                                 OAEF
  SCH
         0131
                                                                                                                              XIOUT
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                                                                                                                                                 OAF3,080C,0868,086F,0875
  SCHE
         O7BA
                    0131,0767
                                                                                                                              XPID
                                                                                                                                                 05A5, 05AD
                                                                                                                                       05E1
 SCHER
         07C 1
                    078E
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 SCHI
                    078F.07C0,07C2
         0705
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 SECB
         07FE
                    0709, 07E8
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 SECSE
         0705
                    0133,0706,07F9,07FB
 SECSU
         0133
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 SEIB
         0442
                    0507,0801,0913
 SFN55
SER
SERE
         OBOA
                    OAFF
                   05E3.078F.0749.08C5.08F5.0AC2
         0132
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         07CB
                    0132,07CC
 SER 1
         0701
                    O7CF
 SE002
         OBAD
                    05E5.07AB
                                                                                                              0
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 SEI
         0709
 SE2
         07E2
                    07DF
 SE3
         07ED
                   07F2
 SIA
         0786
 SIL
         012F
 SILE
         OTAL
                    012F, 07AC
 SILER
         07A9
                   07A6, 0784,07C4
 SILSE
         07AF
                    0130,0786
SILSW
         0130
SILI
         OTAC
                    07A7, 07A8
SIMB
         07FD
                   0708, 07EO
 SKINA
         0808
                                                                                                             0
SKINB
         0812
                   0815
SKINO
SKINI
         0135
         0134
                   0641
SKII
         OC17
                   012C, 05AB, 05C4
SK 12
         0018
                  012C, 05B1
012C
05B7
059D
SK 1 3
         0019
SK 14
        OCIA
         0888
SM33
        UBD1
                   05DD
SRST
        0588
                   0596, 05A8
SRTRY
        0441
                   0790,0703
SSEUR
        079A
SSUEE
        079A
                   012E,079B.079F.07A1
SSUER
        012E
STARI
        058A
START
        0588
                   0588, 05E0
STBF
STBF1
STTR
                   0594,05C3,05D3,07DD,07F3,07F7
        0440
        0801
                   0505.0700
        0507
                   05DA
STTRM
        05C3
                  0585
S00F0
        0788
                  07B3
                                                                                                            ()
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SOOOF
        0709
                  0701
80008
        O7CA
                  07BD
        0599
                                                                                                                 0
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$1700
       07AE
                  07A5
        013A
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DATE
EC NO.
        2192356
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IBM MAINTENANCE	DIAGNOSTIC PRO	GRAM FOR T	HE 1800 SYSTEM	PART NO. 2242264
SK EDIT CONTROL				PAGE
	•		42.	
			3	
	ABS			
OZBC	DRG	/3001		9C300001 8C300002
	*			6C3000 <b>03</b>
	********	********	*****	8030007
3001 0 0790	DC	HAIT1+1	1816 IS OUT OF FORMS.	8C30008 8C30009
	*		MAKE READY AND PRESS	8C300010
	********	*******	START. \$4************	80300011
3002 0 0786	•			80300012
3002 0 0786	DC	HAITZ+1	1816 IS HUNG IN BUSY.	8C300013 8C300014
	•	存年事故がされて中心 _	RESTART IS REQUIRED.	8C300016
	•			86300017
3003 0 09AD	*******	******	********	8C300018 8C300019
	* DC	WAIY3+1	1442 IS NOT READY	8C300020
	3		BEFORE A READ. Make ready and push	8C300021
	*		START.	8C300022 8C300023
	*********	****		8C300024
3004 0 0984	DC	WA:T4+1	**************************************	8C300025
	*	•	RELOAD CARDS AND	8C300026 8C300027
	*	****	PUSH START TO BETEV	8C300028
	•		********	8C300029
3005 0 OC11	******	****	*****	8C300030 8C300031
3003 0 0011	DC .	4AI15+1	RELOAD REQUIRED TO	8C300032
	•		CORRECT ERROR-PRESS START TO IGNORE.	8C300033
	****	****	**********	8C300034 8C300035
	*****			80300036
3006 0 0A01	DC	WAIT6+1	**************************************	8C300037
			BEFORE PUNCH. MAKE	8C300038
	*	*****	READY AND PRESS STADE	8C3000 <b>39</b> 8C300040
	*	企业企业业务表 \$ \$1.4.4.P.	李文本文本文本文本本本本本本本本本本本本本本本	8C300041
3007 O GAGE	*******	****	*********************	80300042
3007 O GAOS	90	WAIT7+1	1442 PUNCH ERROR.	8C300043 8C300044
	*******	******	PRESS START TO RETRY.	8C300045
	₹			8C300046
3008 0 0556	**********	********	***********	8C300047 8C300048
0,000	DC •	MAIT8+1	END OF PROGRAM.	8C300049
			LOAD SKELETONS AND PRESS START TO RERUN.	8C300050
3009	******	****	を事を事を事を事を事を事を事を事を事を事を事を事を事を事を事を事	8C300051 8C300052
OC17	ORG Skil equ	300 30 <del>9</del> 3		8C300053
OC18	SKI2 EQU	SKII+1		8C300054
0C19 0C1A	SKI3 EQU	SKIZ+1		8C300055 8C300056
0120 0 0611	SKI4 EQU ~ KEY DC	KEYE SKI 3+ I		8C300060
012D 0 07A4	CKIN DC	CKYNE		8C300070
012E 0 07C4 012F 0 07CB	SSUER DC	SSUEE		8C300080 8C30009C
0130 0 0709	SIL DC	SILE		8C300100
0131 0 07E4	ŞCH DC	SILSE		8C300110
0132 0 07F5 0133 0 07FF	SER DC	SERF		8C300120 8C300130
0133 0 07FF 0134 0 082D	SECSU DC Skini DC	SECSE		8C300140
0135 0 0838	SKINO DC	KIN1 KINO		8C300150
0136 0 0842	PDK YB DC	DKYB		8C300160 8C300170
0137 0 084B 0136 00 4C800ABE	PHKYB DC ENDO BSC I	HKYB		8C30018G
013A UN 4C0005CD	ENDO BSC 1	RDSK ENDI		8C300190
0130 0 0000	DC	0		8C300200 8C300210
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8K EDIT CONTROL			
0130 0 0000	BWC DC O	BINARY WORD COUNT	
013E 00A0	BINRY BSS 160		8C300220
01DE 0 0000	************	**********	8C300230 8C300240
01DE 0 0000 01DF 0258	KIPL DC		8C300250
0238	KEYIN BSS 600		8C300260
0437 0 0000		*********	8C300270
0438 0 OADE	BGNR DC /0000		80300280
0439 0 DAEB	ERR DC LERR		8C3G0290
043A O OAEF	WEE DE LWCC		8C300300
043B 0 OAF7	MTRM DC LMTRM		8C300310
043C 0 080F	TREX DC LTREX		80300320
043D 0 FFFF	TERM DC /FFFF		8C300330
043E 0 0000 043F 0 0000	THE DC	WC STORAGE .	8C300340
	LGROP DC	GROUP COUNTER	8C300350 8C300360
0440 0 0000 0441 0 0000	STBF DC 0	DISPLACEMENT	8C300370
0141 0 0000	SRTRY DC /0000		8C300380
	*		80300390
	*		80300400
		Burre	8C300410
0442 0 0000	******** EDIT IMAGE SEIB DC /0000	ひいととなる 本本本本本本本本本本	8C300420
0443 0141	BSS 321		8C300430
0584 0 0792	KTYPS DC KTYP		8C300440
0585 0 OCOF	HLT DC HLTE		BC30G442
0586 0 0A93	CODE DC KTILT		8C300443
0588 0000	BSS E O		80300444
0588 00 40000590	SRST BSC L START	RESTART	8C300450
			90300460
	* Co	ONTROL SECTION	8C300 <b>470</b> 8C300 <b>480</b>
058A 00 C400006F	* ************************************		8C300490
0580 00 84000602	STARI LD L /006F	CHANGE LDR BASE ADR	8C300500
058E 00 0400006F	A L K1048 STO L /006F		8C300510
	STO L /006F		80300520
0590 0 1010	START SLA 16	ELEAD ADDRESS	8C3005 <b>30</b>
0591 00 D4000127	STO L /0127	CLEAR ADDRESSES	90300540
0593 D D029	STO SVIX341	***	8C30G550
0594 0 D039	STO END1+1		8C300560
0595 00 D4000440	STO L STBF		8C300570
0597 0 C023	LD BSADI	RESET BSE ADRS	8C300572
0598 00 D4000125	STO L /0125		£C30058 <b>0</b> 8C30059 <b>0</b>
0594 O C8ED	\$		8¢300600
759B 00 DC000000	LDD SRST	SET RESTART	80300610
22 25 25 25 25 25 25 25 25 25 25 25 25 2	STD L /0000		80300620
590 00 4480012E			8C300630
59F 00 4480012C		SET ERROR RETURN SRC	80300640
5A1 0 0BE5		ENTER PID SPC	BC300650
5A2 0 8220	DC 5M2 DC /8220		8C300660
	*		8C300670
5A3 00 C400013E	LD L BINRY	GET ENTRY	8C300680
5A5 00 84000610	CMP L KOOFF	or, cutat	8030690
5A7 0 7065	MDX ERROS		8C300692
548 0 1000 548 0 1000	NOP		8C300694
5A9 0 D056	STO XPID	SAVE	8C3006 <b>96</b>
544 00 4/000	*	· <del></del>	8C300700
5AA 00 44000ABE	SZE BSI L RDSK	RD A SKELTON SRC	8C300716
SAC O CEDE	*	3RC	8C300720 8C300730
5AD 00 DC000000	LDD SRST	RESET RESTART	8C300740
	STC L /0000		8C300750
5AF 00 C4000C17			8C300760
581 0 F04E	LD L SKII EDR XPID	GET PID READ	8C300770
582 00 4C1805BC		IS IT PID DESIRED	80300780
	# B2C F SAIX3*+-	YES	8C300790
584 0 1010	SLA 16	CIEAR IND OCCUPA	8C3008 <b>00</b>
585 00 D4000127	STO L /0127	CLEAR LDR RFLOCAT	80300810
		•	8C300820
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IBM MAINTENANCE	DIAGNOSTIC PROCESAM CON -		
	PROGRAM FOR T	HE 1800 SYSTEM	PART NO. 2242264 PAGE 2
8K EDIT CONTROL			PAGE 2
0587 0 C003	LD BSAD1	RESET BSE ADRS READ NEXT BASE ADRS  IX 3 = TBL LDC GET RFL FACTOR COMPUTE ADRS SAVE  INCR IX 3 SAVE GET CD NO IS IT A TERM START PROG READ MORE  IX 3 = TBL ADRS GET ADRS SAVE GET CD NO IS IT A TERM YES GET ADRS ADD 2 SAVE SET FOR NEXT END OF PROGRAM	
0588 00 D4000125 0588 0 705F	STO L /0125	RESET BSE ADRS	8C300830
058B 0 0C17	MDA SZE BSADI DC /OC17	READ NEXT	8C300850
	• 1001	BASE ADRS	8C300860
05BC 00 6700000G	SVIX3 LDX L3 O	IX 3 = TRI IDC	8C300870
058E 00 C4000127 05C0 0 8040	LD L /0127	GET REL FACTOR	8C300880
05C1 00 D7000603	A BSADR STD 13 RLT91	COMPUTE ADRS	8C300900
05C1 00 D7000603 05C3 0 D003	STD RIFT+1	PAAF	80300910
05C4 0 7301 05C5 0 6BF7	HDX 3 1	INCR IX 3	80300920
05C6 00 C400000	I+EXIVE E XTZ	SAVE	8C300930
05C6 00 C4000000 05C8 00 F400043D 05CA 00 4C180C1A 05CC 0 70DD	FOR L TERM	GET CD NO	8C300950
05CA 00 4C180C1A	BSC L SK14.4-	IS II A TERM START PROC	80300960
05CC 0 70DD	MDX SEE	READ MORE	80300970
05CD 00 67000000	ENGT TOW TO S		8C300980
05CF 00 C7000604 05D1 0 D001	ENDI LDX 13 0 LD 13 RITHI+1	IX 3 = TBL ADRS	8C301000
05D1 0 D001	STO REFTI +1	SAVE	8C301010
0502 00 E4000000	RLFT1 LD L O	GET CD NO	8C301020
05D6 00 4C1805F7	EOR L TERM	IS IT A TERM	8C301040
05D8 00 C7000604	LD 13 RITHIA	YES	80301050
05DA 00 840007E3	A L K0002	ADD 2	80301060
050C 0 0003	STO REFTZ+1	SAVE	07010238
05DF 00 4C000000	RIFT2 RCC . A	SET FOR NEXT	80301090
05D1 0 D001 05D2 00 C4000000 05D4 00 F400043D 05D6 00 4C1805E7 05D8 00 C7000604 05DA 00 640007E3 05DC 0 D003 05DD 00 740105CE 05DF 00 4C000000 05E1 00 4480012C 05E3 0 OBFB	END BZI I KEA	FND DE REDERIM	80301100
05E3 0 08FB	DC 5M33 DC /0000 WAITS WAIT 8	CHO CF PROGRA	SRC 8C301110
05E4 0 0000 05E5 0 3008	DC /0000		80301130
05E5 0 3008 05E6 0 70A9	MDX START	GET DISPLACEMENT COMPUTE ADRS SAVE IX 1 = ADRS GET PID SET  SET PUNCM CARDS JERO ACCUM CLEAR DISPL	8C301140
05E6 0 70A9 05E7 00 C4000440 05E9 00 84000828	STTRM LD L STEF	GFT DISDIACEMENT	8C301150
05E9 00 84000828 05E8 0 D001	A L STBFI	COMPUTE ADRS	8C301160
05EC 00 65000000	STO ++1 LDX LI G LD L SKF1 STO I G LD L TERM STO I I BSI L PECOR	SAVE	8C301180
05EE 00 C4000C17	TD F 2KEF	IX I = ADRS	8C301190
05F0 0 C100	STO IO	SET	8C301200
05F1 00 C400043D 05F3 0 D101	LD L TERM		8C301220
05F4 00 44000931	STO 1 1 BSI L PECOR SLA 16 STO L STBF LDX L1 322 STTR STO L SEIB-1	SET	80301230
05F6 0 1010	SLA 16	PUNCH CARDS	SRC 8C301240
05F7 00 D4000440	STO L STOF	CLEAR DISPL	80301250
05F8 G0 D4000441	LDX L1 322		8C301260 8C301270
	MDX 1 -1	CLEAR CD SER DECR EX E LOOP	8C301270 8C301280
05FE 0 70FC	MDX STTR	LOOP	8C30129 <b>0</b>
05FF 0 70E1 0600 0 0000	MDX END	GO TO END	8C3013 <b>00</b> 8C301 <b>310</b>
0601 0 OC18	XPID DC 0 BSADR DC 3096	PID STORAGE	8C301320
0602 0 0418	K1048 DC 1048	CONSTANTS	8C301330
0603 0 0000 0604 0009	RLTBL DC 0	THE OF REL FACTORS	AC 301340
0604	BSS 9 ERRO4 BSI I SER		AC301350 8C301360
060F 0 0807	ERRON BSI I SER DC SEDO2		8C301362
0610 0 00FF	KOOFF DC /OOFF		9C301366
	•		8C301366
	*		5C301370 8C301380
	*	DDINTED TAN MALINA	9C30139 <b>0</b>
	*	PRINTER IND ROUTINE	eC301400
	*	CALL BSI KEY	8C301410 8C301420
	*	DC MSGAD	80301430
	•	DC :D	8C301440
	•	ID BIT O KEYBOARD	8C301450
	•	XOXX NO CONV	8C301460 8C301480
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MAINTENANCE DIACHOSTIC PROGRAM FOR THE 1800 SYSTEM

8K EDIT CONTROL

X1 XX DEC CONV 9C301482 X2XX HEX CONV 8C301484 8C301490 0511 0 0000 8C301500 KEYE 20 /0000 0612 0 6941 80301510 STX 1 KEY96+1 SAVE STATUS 0613 0 6442 8C301520 STX 2 KEY97+1 0514 0 6843 8C301530 STX 3 KEY98+1 0615 00 DC000A4C 80301540 STO L KAQ 0617 0 2843 8C301550 STS KEY99 BC301500 0618 00 C4800611 80301570 LO I KEYE FETCH MESS ADRS 061A 00 D4000A46 80301580 STO L KMSG 061C 00 74010611 80301590 MDX L KEYE.1 POINT TO ID 80301600 061E 00 65000A47 BC301610 LOX LI KOUT SET CARRIER RETURN 0620 00 C4000AA3 80301620 LD & KCR 80301630 0622 0 1808 BC301640 SRA CLEAR EBDIC CODE 0623 0 1008 80301650 SLA 0624 0 D100 80301669 STO 1 0 STORE IN OUTPUT AREA 8C301670 0625 00 C4800A46 KEBCZ LD 1 KMSG 80301680 CHECK TERMINATOR 0627 00 84000A56 A & KONE BSC & KCHK+-80301690 0629 00 40180648 80301700 BR IF NO MORE WESS ******************* 8C301710 80301720 0628 0 6208 80301730 LDX 2 8 062C 00 67000A7A 80301740 KE3C3 LOX L3 KTGLT CONVERT CHARS TO RTT 062E 0 7101 90301750 g g XCM 062F 00 C4800446 KEBC4 LD I KMSG 90301760 FETCH EBDIC CHARS 0631 0 1A00 BC 301770 SRA 2 0 0632 0 1008 80301780 SLA 8081 O £860 80301790 SRA 0634 0 F300 80301800 EDR 0635 0 D100 80301810 STO 1 0 0636 0 1008 80301820 SLA 0637 0 7301 80301830 FOX 3 1 0638 00 4C20062F 8C301840 BSC L KEBC4.Z BR IF NOT THE CHAR 8C301850 0634 D 7200 80301860 MOE 2 0 SKIP IF 2 CHARS CNVT 0638 0 7000 80301870 XC# KEBC6 80301980 063C 00 C4000A56 80301890 LO L KONE SET TERMINATOR 063E 0 8100 80301900 A 1 0 510 1 0 063F 0 0100 80301910 0640 00 65000A47 50301920 LOX LI KOUT GO PRINT CHARS 0642 00 44000792 80301930 BSI L KTYP 80301940 0644 00 65000846 80301950 LDX LI KOUT-I 0646 00 74010A46 90301960 MDK E KMSG.1 POINT TO NEXT HORD RC301970 0648 0 70DE MDX KEBC2 80301980 0649 0 6200 86301990 KEBC6 FDX S 0 CONVERT SECOND CHAR 80302000 064A 0 70E1-MDX KEBC3 80302010 **************** 80302020 80302030 0648 00 65000AA3 80302040 KCHK LOK LI KCR 0640 00 44000792 BSI L KTYP LD I KEYE 80302050 DO CAR RET SRC 064F 00 C4800621 8C302060 0651 00 40280660 80302070 BSC & KFRM. . Z AR IF KOD ENTRY 80302080 *** 80302090 0653 00 65000000 80302100 KEY95 LDR 11 /0000 RESTORE STATUS 0655 00 66000000 80302110 KEY97 LDX L2 /0000 0657 00 67000000 80302120 KEY98 LOX L3 /0000 0659 00 CC000445 80302130 LDD L KAO 80302140

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IBM MAINTENANCE DIFGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242264 PAGE 3 BK EDIT CONTROL KEY99 LDS 0658 0 2000 80302150 80302160 0650 00 74010611 MDX L KEYE.1 8C302170 065E 00 4C800611 BSC I KEYE RETURN FYIT 8C302180 ************************ 8C302190 *************** 80302200 8C302210 80302220 0660 0 1090 KFRM SLT 16 FETCH FORM NUMBER 80302230 0661 00 C4800611 I KEYE I D 80302240 0663 0 1004 SLA 8C302250 0664 0 18CF RTE 80302260 0665 00 D4000753 STO L KEYFM SAVE FORM NO 80302270 0667 0 1804 SRA 80302280 0568 0 1084 SLT 80302290 0669 00 D4000754 STO L KEYNO SAVE CHAP/WD COUNT 80302300 80302310 80302320 0668 00 44800134 KEYOG BSI I SKINI SET KEYIN TO FFFF SRC 80302330 80302340 066D 00 6F0001DE STX L3 KIWC RESET WD CT 80302350 80302360 066F 00 670001DF LOX L3 KEYIN RESET READ AREA 80362370 ****** ****** 60302380 0671 00 6F000A54 KEYO STX L3 KRED 80302390 0673 CO 4400076F BSI L KNBY WAIT FOR NOT BUSY 90302400 80302410 0675 00 0C000A52 KEY1 XIO L KPCD SET KEYBOARD PROCEED 80302420 80302430 0677 00 0C000A44 KEY2 XID L KSNS SENSE STATUS 80302440 0679 0 1001 SLA 8C302450 067A 00 4C280680 BSC L KEY3.+Z GO READ KEYBOARD 8C302460 80302470 067C 0 1005 SLA 80302480 BSC L KEY1.-067D 00 4C100675 BR IF NOT PROCEED 80302490 067F 0 70F7 MDX KEY2 80302500 8C302510 0680 00 0C000A54 KEY3 XIO L KRED READ KEYBOARD 80302520 80302530 0682 0 6108 KFMS LDX 1 11 CHECK FOR DEC OR SPC 80302540 KFMS1 LD 3 KPED-KRED FETCH CHAR READ 0683 0 0300 80302550 0684 00 F5000A5D EOR L1 KECOD-1 80302560 0686 00 4C1806DD BSC L KDEC,+-BR IF DEC CR SPACE 80302570 80302580 0688 0 71FF MDX 1 -1 80302590 0689 0 70F9 MDX KFMSI 80302600 80302610 068A 00 C4000753 L KEYFM CHECK FOR FORM 80302620 068C 00 F4000A56 EOR L KONE 80302630 068E 00 4C1806A7 BSC L KFMO,+-BRANCH IF FORM 1 80302640 ********** 80302650 9690 0 6106 KFM2 LDX 16 CHECK FOR HEX 80302660 0591 0 C300 KFM21 LD 3 KRED-KRED FETCH CHAR READ 80302670 0692 00 F5000A68 EOR LI KECAD-1 80302680 0694 00 4C1806E0 BSC & KHEX, -BR IF ALPHA 80302690 80302700 0696 0 71FF 80302710 0697 0 70F9 MDY KFM21 80302720 0698 U C300 LD 3 KRED-KRED FETCH CHAR READ 80302730 0699 00 F4000A58 L KECPD 80302731 0698 00 4C2006A7 BSC L KFMD.Z BR IF NOT PERIOD 80302732 0690 0 C3FC 3 -4 LO A PLUS DR MINUS 80302733 069E 0 6201 LDX 2 I 80302734 069F 0 1240 SLCA 2 0 80302735 06A0 00 F40008A9 EOR L #8000 80302736 BSI L KERR.Z BR IF NOT + DR -06A2 00 44200757 80302737 06A4 00 C4000A8F LD L KTPLT BC302738 MDX KPNE 06A6 0 7022 8C302739 DATE EC NO.

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BK EDIT CONTROL

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80302740

			****						80302740
06A7	. 0	6108		LDX			********		8C302750
06 A 8			KFMO:			8	CHECK UC SP CHRS		80302760
	-	F5000A56	KF TU.				GET CHR READ CK AGAINST TBL		PC302770
		4C1806D2		EOR	L	KN-1	CK AGAINST TBL		8C302780
				BSC			CHAR FOUND		RC302790
06AD		71FF		MDX		1 -1	DECR IX 1		8C302800
06 A E	. 0	70F9		MDX		KFM01	LOOP		80302810
*			*						8C307820 9C302830 8C302840 9C302850 8C302860 8C302870 8C302880
06AF	_	6107		LDX	1	7	CK LC SP CHRS		90302830
0680		C300	KFM02	2 LD		0	GET CHR READ		80302840
06B1	. 00	F5000A71		EDR	L	KAL-1	CK AGAINST TBL		80302850
06 B 3	00	4C1806DB		BSC	L	KMPX.+-	CHARACTER FOUND		80302860
0685	0	71FF		MDX		-1	DECR IX 1		80302870
0686	0	70F9		MDX	•	KFM02	LOOP		00302010
06B7	C	C 300		LD		0	GET CHR READ		00302000
		F4000A4B		EOR		KL	OLI CIIN NEAD		80302890
		442006F6		BSI					80302900
	-		ŧ	032	-	K35C12			80302910
06BC	۸	6201	•						8C302920
0680		C3FA		LDX		1			80302930
06BE				LD	-	-6			8C302940
		1002		SLA		2			8C302950
068F		1240		SLCA					8 <b>C</b> 302960
		F4000BA9				k8000			90302970
USUZ	00	44200757		851	L	KERR, Z	BR IF NOT 1 OR ZERD		8C302980
			幸						9C302990
05C4		C3FA		LD	3	-6			80303000
0605	0	1802		SRA		2			8C303010
06 C 6	0	D3FA		STO	3	-6			6C303020
06C7	00	C4000A7F		LD	L	KLRT			90303030
0609	00	ECOCOA56	KPNE	DR		KONE			8C303040
		65000A47		LDX		KOUT			
0600		DIOO		STO		0			8C3O3O5O
06CE	00	44000792		821	Ł				8C 3O 3O 6O
		4C000671		BSC	£		BRANCH		8C303070
	***	,5500012	rich (	030	÷-	KETU	DRANLH		8C30308 <b>0</b>
0502	a	C30C	KKOK	. 6	2	e	PP 21 P 12 P		9C3O3O9O
		F4000A5C	FNJA				FETCH CHAR		80307091
		4C2006DB		EOR		KECPD+1			8C303092
0607				BSC	L		BR IF NOT + SIGN		80303093
		C 300		LD	3	0	MAKE + = /8000		<b>9C3</b> 03094
0608		1800		SRA		12			80303095
0609		100C		SLA		12			8C303096
06 D A	_	D300		STO	3	G			80303097
0608		7111	KMbX	MDX	1	KN-KECGD	ADJ IX 1		80303100
06 D C	O	7001		XCM		KDEC1			8C303110
									8C3O312O
			***	***	**	***	****		80303130
			*				•		8C303140
06DD	0	7118	KDEC	XCM	3	KECOD-KECG	D CORCT XR1		£2303150
			<b>@</b>						
06DE	0	4003	KDEC1	BSI		KSTO	GO STORE + PRT	SRC	8C303160 8C303170
			*				oo stoke . The	346	
06DF	0	7091		MDX		KEYO	RETURN FOR NEXT		90303180
			<b>\$</b>			NE TO	KETURN -UK NEXT		8C303190
			•						80303200
0650	0	7123	KHEX	MOV	•	KECAD-KECG			8C303210
06E1		70FC	KILK				O GO PRINT A - F		6C30322 <b>0</b>
00.2.2	₩.		***		-	KDEC1			8C30323 <b>0</b>
			*	***	+ ~+	*****	*****		8C303240
			*						8C303250
0457	n	0000		25		40000	STORE AND PRINT RIN		8 <b>C303260</b>
06E2			KSTO		_	/0000			8C303270
06 E 3				LD		0			8C30328C
06E4				OR	3	-1			80303290
06E5				SRA		4			80303300
06E6	00	4C9806EZ		BSC	ž	KSTO,+-	BR IF SECOND SPACE		80303310
	_		麽				_		8C303320
		C5000A79		LD	Ll	KTGLT-1	FETCH TYPR CHAR		8C303330
06 E A	00	ECOOOA56		DR	L	KONE	-		8C303340

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242264 PAGE 4 BK EDIT CONTROL 06EC 00 65000A47 LDX L1 KOUT 80303350 06EE 0 D100 STO 1 0 8C303360 06EF 00 44000792 BSI L KTYP TYPE CHARACTER 80303370 80303380 UPDATE KEYBOARD BUF 80303390 06F1 00 740101DE MDX L KINC.1 80303400 06F3 0 7301 47X 3 1 80303410 80303420 06F4 00 4C8006E2 BSC I KSTO RETURN TO USER 80303430 ********** ********** 80303440 SPECIAL CHAR CHECK 80303450 06F6 0 0000 KSPE DC /0000 80303460 80303470 06F7 0 C300 LD 3 0 FETCH KEY CHARACTER 8C303480 06F8 00 F4000A79 EOR L KCMA 80303492 06FA 00 4C200712 BSC L KSPC5,Z BR IF NOT A COMMA 80303500 80303510 06FC 00 C40001DE L KIWE LD 80303520 06FE 00 940007E3 L K0002 60303530 0700 00 44280757 BSI L KERR.+Z BR IF COMMA TOO SOON 8C303540 80303550 0702 0 C3FF LD 3 -1 FETCH LAST ENTRY 80303560 0703 0 1804 SRA 80303570 0704 00 40180709 BSC L KSPC2.+-BR IF SPACE LAST 80303580 0706 00 740101DE MOX & KINC++1 80303590 0708 0 7301 MDX 3 +1 80303600 0709 00 C4000A56 KSPCZ LD L KONE 80303610 0708 0 03FF STO 3 -1 SET FIELD PROTECT MK 80303620 80303630 070C 00 6500072A LDX LI KCOMA 80303640 070E 00 44000792 BSI L KTYP GO PRINT + DR-80303650 80303660 0710 00 64000671 LOX L KEYO RETURN FOR MORE CHR 80303670 80303680 ******** 80303690 0712 0 C300 KSPC5 LD 3 0 FETCH KEY CHAPACTER 80303700 0713 00 F4000A70 EOR L KERSE 80303710 0715 00 4C20072D ESC L KSPC9.Z BR IF NOT ERASE CHAR 80303720 80303730 0717 00 C40001DE L KINC 80303740 0719 00 40080671 BSC L KEYO,+ BR IF WORD COUNT ZERO 80303750 80303760 0718 0 C3FF 3 -1 CHECK PROTECT BIT 80303770 0710 00 40040671 BSC L KEYO, E BR IF LAST WORD PROTO 80303780 071E 0 1801 SRA 80303790 071F 00 4C040725 BSC L KSPC6.E DO BKSP OVER PERIOD 80303800 0721 0 73FF #DX 3 -1 DECREASE WORD COUNT 80303810 0722 00 74FF01DE MDX L KIWC .- 1 80303820 0724 0 1000 HOP 80303830 0725 00 65000720 KSPC6 LDX LI KBKSP 80303840 0727 0 406A 851 KTYP DD A BACKSPACE SRC 80303850 80303860 0728 00 40000671 BSC L KEYO RETURN 80303870 ******* 李本本李李本本本本本本本本本本本本本本本本本本 80303886 072A 0 8000 KEDMA DC /8000 COMMA RESPONSE 80303890 0728 0 8101 /8101 80303900 0720 0 1101 KBKSP DE /1101 80303910 80303920 072D 0 C300 KSPC9 LD 3 0 FETCH KEY CHAR 80303930 072E 00 F4000A6F EDR L KRENT 80303940 0730 00 44180757 BSI L KERR, --BR IF ERASE FIELD 80303950 80303960 0732 0 C300 3 KRED-KRED FETCH CHAR READ 80303970 0733 00 F4000A71 EDR L KENDK 80303980 0735 00 40200671 BSC L KEYO.Z BR IF NOT EDF KEY 80303990 80304000 0737 00 C40001DE KINC FETCH WORD COUNT 80304010 0739 0 901A KE YNO 80304020

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8K EDIT CO	NTRO	L
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073A	00 44280757		8 5 1		. KERR	++Z TOO FEW ENTRIES	00304030
073C	00 658001DE		LD		I KINC	CLEAR FIELD PROT BIT	8C304030
	00 C50001DE	KSPE	A LD		1 KIWC	actual little Lyon Bil	80304040
0740			SRA		4		8C304050
0741	0 1004		SLA		4		80304060
0742	00 D50001DE		STO		1 KINC		8C3040 <b>70</b>
0744							80304080
0745			MDX		1 -1	_	8C304090
0.15	0 1019	_	MDX	Ĺ	KSPC	A .	80304100
							80304110
0746	0 6255	-					80304120
0140	O C3FF		LD		3 -1	REMOVE SP BEFORE	8C304130
07/7		*				TERMINATE	80304140
0747			SRA		4	• • • • •	9C304150
	00 4C20074F		BSC	Ł	KSPCI	PR IF NO SPACE THERE	
074A			MDX		3 -1	DECREMENT WORD COUNT	8C304160
	00 74FF01DE		MDX			-1	80304170
0740	7001		MDX		KSPCE		80304180
074E (	4008		BSI		KERR	•	80304190
074F (	COLE	KSPC			KNEG	SET TERMINATION	8C304200
0750 (	D300		STO		3 0	SET TERMINATION	8C304210
0751 0	00 44000ACA		851				80304220
0753		KEYF		L	LOCIT		80304230
0754					/0000	10.32.1	8C304240
	0000	KEYN		_	/0000		80304250
(77)	00 40000055	EXIT	BSC	L	KEY96	•	8C304260
		*************************************	****	***	***	*****	80304270
		*					RC304280
		*					80304290
0757 0		KERR	DC		/0000		
	0 65000LA4		LDX	LI	KFELD	PRINT FIELD CANCELLD	80304300
075A 0	4037		BSI		KTYP	Tree Children	8C304310
		*				SRC SRC	8C304320
075B 0			X CP	9	1		8C304330
075C 0	0 740101DE		HDX	Ł	KIWC.	•	80304340
075E 0	61FF		1 DX		-1	A.	8C304350
075F 0		KERRI			-1	50166 00 000	8C304360
	0 40040671	72 172	BSC		_	ERASE TO FIELD MARK	80304370
		4:	036	L	KEYO,	E BR IF FIELD MARK	80304380
0762 0	C008	*					80304390
0763 0	0300		FD	_	KNEG		80304400
0764 0			STO		O		8C304410
			MOX	3	-1	DECREMENT WORD COUNT	80304420
	74FFOIDE		*DX	Ł	KINC.	-1	8C304430
0767 0	70F7		MOX		KERRI		8C304440
		*					80304450
	C40001DE		LD	å	KIWC		
	4000671		BSC	1	KEYD.		8C304460
	4000668		BSC	L	KEYOG		80304462
076E 0	FFFF	KNEG	DC		-1	CONSTANT MINUS ONE	8C304464
				***	_ *******	t	8C304470
		*					8C304480
		*				_	8C304490
		•				TYPE NOT CHEM OF	80304500
076F 0	0000	KNBY	DC .		/0000	TYPR NOT BUSY RTN	8C304510
0770 0	6A18	11.72	STX	9		•	80304520
	6600000A		LDX	15	KNBY54	=	8C304530
0773 00	6E000791					SET TIME COUNTER	80304540
	66007FFF	****	STX	LL	KTIME		80304550
	0C000A44	UTCFA	LUX		/7FFF		8C304560
0779 0		KABAI		L	KSNS	CHECK BUSY	80304570
	1004		SLA		4		90304580
	40100788		BSC	L	KNBYS.	- BR IF NOT BUSY	5C304590
0776 0	72FF		MDX	2	-1		
0770 0	70F9		*OX		KNBYI	CHECK AGAIN	8C304600
	74FF0791		MDX	L	KTIME,	- B DECREMENT TANK	8C304610
0780 0	70F4		MDK		KNBYO		8C304620
		•					8C304630
	6600078?		LDX	12	KNBY4		80304640
	6E000003		-	LZ			8C304650
0785 0	3002	STIAM			2		8C304660
0786 0	TOEA		MDX				9C304670
-			-100		KNBY+2		8C304680

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IBM HAI	NTENANCE DI	AGNOST	IC PR	OGRA	4 FOR THE	1800 SYSTEM		PART NO Page	• 2242264 5
8K EDIT	CONTROL								
0707.00		•						80304690	
	6600012C	KN9 Y4		12		RESTORE RESTART		8C304700 8C304710	
0788 00	66000000	*				****		8C304720	
0780 00	0C000A4E				/0000 KRDY	EXIT RESET		8C30473 <b>0</b> 8C30474 <b>0</b>	
	4C80076F 0000	KTIME		I	KNBY			80304750	
0171	0000			***	/0000 ******	TIME COUNTER		8C304760 8C304770	
		•						8C304780	
						•		8C304790 8C304800	
		*				PRINTER OUTPUT RTN XR1 = ADRS OF MESS		8C304810 8C304820	
A702 A		*				MM2 - HONG 61 ME55		80304830	
0792 0 0793 00	0000 60000A50	KTÝP KTYPI		LI	/0000 KPRT	SAVE PRINTING ADDR		8C304840 8C304850	
0795 0	4009							80304860	
		•	851		KNBY	WAIT OF NUT BUSY		8C304970 8C304880	
	0C000A4E 1005	KTYP5		£		CHECK READY		8C304890	
0799 00	4C10079D		SLA BSC	L	5 KTYP6	BR IF READY	٠	8C304900 8C304910	
0798 0	3001	WAIT1			1			8C304920	
079C 0	70F9		X GF		KTYP5			8C304930 8C304940	
0790 00	0C000A50	* KTYP6	x t n		KPRT	SUTPUT ONE CHAR		8C30495 <b>0</b> 8C304960	
079F G	C 100		LO	1	0			8C304970	
OTAU UU	40840792	*	BSC	1	KTYP,E	EXIT IF MSG PRIM		8C304980 8C304990	
0 5ATO	7101		MDX	1	1			8C305000 8C305010 8C305020 8C305030 8C305040 8C305060 8C305060 8C305070 8C305090 8C305100 8C305110 8C305120 8C305120 8C305140 8C305140	
07A4 0	0000	CKYNE	MD X DC		KTYP1 O		SE	8C305010 8C305020	
07A5 00 07A7 0	C40001DF		LD EOR	L	KEYIN	GET ENTRY		8C305030	
07 A8 00	4C18078E			Ł	YES CKYND,+-	IS IT Y LC YES		8C305050	
07AA 00 07AC 0	C40001DF F014		LD EOR	L	KEYIN YESI	GET ENTRY IS IT Y UC		8C305060	
07AD 00	4C1807BE		BSC		CKYND++-	YES		8C305080	
07AF 00	C40001DF F010		LD EOR		KEYIN NO	GET ENTRY IS IT V LC		8C30509Q	
	4C1807BC		BSC	L	CKYN1 +-	YES		80305110	
0786 O	C40001DF - F00C		LD EOR	L	KEYIN NOI	GET ENTRY IS IT N UC		8C305120 8C305130	
0767 00	4C18078C	*	BSC	Ł	CKYN1 +	YES		8C305140	
	44800132		BSI	1	SER	NOT Y OR N	SRC	8C305150 8C305160	
078B 0	0882	ė.	DC		PCKBE			8C305170	
	740107A4				CKYNE .1	INCR RETURN		8C305180 8C305190	
07BE 00	4C8007A4	CKYND *	BSC	I	CKYNE	EXIT	SX	8C305200 8C305210	
	2020	YES	DC		/2020	LOWER CASE Y		8C305220	
	806 <b>0</b> 4100	YES1 ND	DC DC		/8060 /4100	UPPER CASE Y LOWER CASE N		8C305230 8C305240	
0703 0	8120	N31 *	DC		/8120	UPPER CASE N		8C305250	
		•						8C305260 8C305270	
0764 0	0000	* SET			RN ON ERROI	₹		8C305280	
07C5 0	COFE		LD		/0000 SSUEE			8C305290 8C305300	
07C6 0 07C7 00			STO		KOOOZ Srtry			80305310	
07C9 00 ·			BSC	1	SSUEE			8C305320 8C305330	
0704		S SE UR	EOU		SSUEE	IF INTERRUPT LEVEL		8C305340 8C305350	
		•			IS TO			8C305360	
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07CB 0 0000 07CC 00 C40C013E 07CE 0 1008 07CF 0 8008 07D0 0 7002 07D1 0 7004 07D2 0 7003	SILE DC LD SLA CMP MDX MDX MDX		BINRY 8 S1700 SILER SIL1 SIL1	GREATER FRROR	
07D3 00 44800132 07D5 0 08D7	SILER BSI DC	ľ	SER SEOO2		
0706 00 4C8007CB	SIL1 BSC	I	SILE		
0708 0 1700	\$1700 DC		/1700		
	*		C	CHECK IF ILSW IS VALID	
07D9 0 0000 07DA 00 C400013E 07DC 0 1004	SILSE DC LD SLA	L	/0000 BINRY 4		
07DD 0 B004	CMP		S00F0		
07DE 0 70F4 07DF 0 1000	MDX NOP		SILER O	ERROR	
	*		U		
07E0 00 4C8007D9	SIA BSC	I	SILSE		
07E2 0 00F0 07E3 0 0002	SOOFO DC KOOOZ DC		/00F0 2		
	* *		_	WEEK SUMMER WALLE	
			C	HECK CHANNEL VALUE	
07E4 0 0000 07E5 00 C400013E	SCHE DC		/0000		
07E7 0 BOOC	LD CMP	L	BINRY SOOGS		
07E8 C 7002	MDX		SCHER		
07E9 0 7005	<b>MDX</b>		SCHI		
07EA 0 7004	¥Ox		SCHI		
07E8 0 F007	* SCHER EOR		SOCOF		
07EC 00 4C1807EF	BSC	Ł		6	
07EE 0 70E4	HDX		SILER	ERROR	
07EF 00 C400013E	*		D.T. 410.44		
. 07F1 00 4C8007E4	SCH1 LD BSC	L	BINRY SCHE		
07F3 0 000F	SOOOF DC	*	/000F		
6354 0 0000	*				
07F4 0 0008 07F5 0 0000	SOOOB DC SERE DC		/0008		
07F5 00 C48007F5	SERE DC	I	/0000 SERE	EFFCH FRANK LANGERS	
07F8 0 D00Z	STO	•	SER1	FETCH ERROR ADDRESS	
0750 00 ((050500	*	_			
07F9 00 4480012C 07FB 0 0000	BSI SER1 DC	Ī	KEY	100000	
07FC 0 0000	SER1 DC DC		/0000 /000 <b>0</b>	ADDPESS ID	
	*			• •	
07FD 99 4C800441	B SC ●	Ī	SRTRY		
	*		SET	UP ROUTINE	
	*			X2= CARD NUMBER	
07FF 0 0000	SECSE DC		o		SE
0800 00 C48007FF	LD	1	SECSE	GET MSG ADRS	3 5
0802 0 D024	STO		SIWB	SAVE	
0803 0 6A24 0804 0 6924	SEI STX		SECB	SET CD ND	
0805 0 6B24	STX STX		NOEN	SET PID SET NO OF ENTRIES	
0806 0 CO24	LD	•	STBF1	GET EDIT IMAGE ADRS	
			-	and and single policy	

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

BK EDIT CONTROL

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8C305370 8C305380 8C305390 8C305400 8C305410

8C305550 8C305560 8C305580 8C305580 8C305600 8C305610 8C305620 8C305630 8C305650 8C305650 8C305660 8C305660 8C305670 8C305720

80305720 8C305740 80305750 80305760 8C305770 80305780 80305790 80305800 8C305810 80305820 8C 30 5830 8C305840 8C305850 80305860 8C305870 8C305880 80305890

9C305890 8C305910 9C305920 8C305930 8C305930 8C305940 8C305950 8C305970 8C305980 8C305990 8C306000 8C306000

8C306030 8C306040

8C305550

IBM MAINTENANCE	DIAGNOSTIC PROGRAM FOR T	HE 1800 SYSTEM	PART NO. 2242264 PAGE 6
8K EDIT CONTROL			-
0807 00 84000440	A L STBF		
0809 0 D093	STO SE241	SET	8C306050
080A 00 65800827	COV 17 21 MG	IX 1 = MSG ADRS	8C30606 <b>0</b> 8C3060 <b>70</b>
080C 00 6700000 080E 00 6680082A	THE CON ES O	IX 3 = STARTING ADRS	8C306080
0810 0 CO18	LDX 12 NOEN	1x Z = NO ENTRIES	8C306090
0811 0 D300	250 2 0 FD C61D	GET PID	8C306100
0812 0 CO15	LD SECB	SET GET CD NO	8C306110
0813 0 D301	STO 3 1	SET	8C306120
0814 0 CO15 0615 0 D302	LD NOEN	GET NO ENTRIES	8C306130 8C306140
0815 0 D302 0816 0 7303	STO 3 2	3E1	8C306150
0817 0 C100	MOX 3 3 SE3 LD 1 0	INCR 1X 3	80306160
0818 0 D300	STO 3 0	GET AN ENTRY Set	8C306170
0819 0 7101	MDX 1 1	INCR MSG ADRS	80306180
081A 0 7301	MDX 31	INCR BFR ADRS	80306190
081B 0 72FF 081C 0 70FA	MDX 2 -1	DECR NO ENTRIES	8C306200 8C306210
081C 0 70FA 081D 00 C4000440	MDX 5E3	LOOP	8C306220
081F 0 800C	CD & 318V	400.3	8C306230
0820 0 8009	4 K0003 A NDEN	ADD AD SHEDISS	8C306240
0821 00 D4000440	STO L STBF	ADD NO ENTRIES	80306250
0823 00 740107FF	MDX L SECSE,1	INCR RETURN	8C306260
0825 00 4C8007FF	BSC I SECSE	EXIT	8C3062 <b>70</b> 8C30628 <b>0</b>
0827 0 0000	*		80306290
0828 0 0000	SIMB DC O SECB DC O	MSG ADRS	8C306300
0829 0 0000	SECR DC 0	CARD NO	80306310
082A 0 0000	NOEN DC 0	PID NO ENTRIES	80306320
0828 0 0442	STBF1 DC SEIB	CD BER ADRS	8C306330
082C <b>o</b> 0003	K0003 DC 3	CD BFR ADRS CONSTANT 3	8C306340 8C306350
082D 0 0000	******	******	8C306360
082E CO 67000258	KIN1 DC 0 LDX L3 600	SE SE	8C306370
0830 00 C400043D	LD L TERM	SET IXING GET FFFF	8C306380
0832 00 D70001DE	SKINA STO L3 KINC	SET KEYIN AREA	8C306390
0834 0 73FF	MDX 3-1	DECR IX 3	8C3064 <b>00</b> 8C30641 <b>0</b>
0835 0 70FC 0836 00 4C80082D	MDX SKINA	LOOP	80306420
0030 00 40800820	BSC I KINI	EXIT	80306430
	*********	************	8C306440
0838 0 0000	KINO DC O	c r	8C306450
0839 00 67000258	LDX L3 600	SE SET IXING	8C306460 8C306470
0838 0 1010	SLA 16	CLEAR ACCUM	8C306480
093C 00 D70001DE 083E 0 73FF	SKINB STO L3 KINC	CLEAR KEYIN AREA	8C306490
083F 0 70FC	MDX 3-1 MDX SKINB	DECR IX 3	8C306500
0840 00 40800838	BSC I KINO	LOOP EXIT SY	80306510
		KEYBOARD TO BINARY RT	8C306520
00/3 0 0000	*	THE COLUMN THE	8C306530 8C306540
0842 0 0000	DKAB DC 0		8C306550
0843 0 D862 0844 0 COFD	STD PHKX1	SAVE A + Q	8C306560
0845 0 D005	LD DKYB Sto HKYB		8C306570
0846 00 D40008AF	STO L PHDSW	SET HEX-DEC SW = DEC	80306580
0848 00 C40008F7	LD L PDKX1	CONSTANT 10	8C306590
084A 0 7005	MDX PHKYD	ENTER COMMON SECTION	8C30660 <b>0</b> 8C30661 <b>0</b>
	*		SC306620
	* " " " " " " " " " " " " " " " " " " "	WEWERARD WITH	8C306630
	• HEX	KEYBOARD TO BINARY RT	8C3066 <b>40</b>
0848 0 0000	HKYB DC 0		8C306650
084C 0 D859	STD PHKKI	SAVE A + Q	8C306660
084D 0 COSF	LD PHKX7	CONSTANT ZERO	8C306670 8C306680
084E 0 D060 084F 0 C05E	STO PHOSW	SET HEX-DEC SW = HEX	8C306690
084F 0 C05E 0850 0 D01F	LD PHKX8 PHKYD STD PHKYC		80306700
0851 0 284F	PHKYD STO PHKYC STS PHKYS	SET CONV CK	8C306710
	111113	SAVE STATUS	8C30£720
147E 0440444			
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			PAGE

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BK EDIT-CONTROL			
0852 0 6949 0853 0 6848	STX 1 PHKY6+1	SAVE X1	80304730
0854 0 6848	STX 2 PHKY7+1 STX 3 PHKY8+1	SAVE X2 SAVE X3	8C306740
0855 00 67800848	LDX 13 HKYB	SAAE X3	80306750
0857 00 C7000000 0859 0 D04E	LD L3 0		8C306760 8C306770
0859 0 D04E 085A 00 C7800001	STO PHKX2	SAVE CHAR/WORD	80306760
085C 0 804C	LD 13 1 A PHKX3	GET ADDR OF DISP	RC306790
085D 0 D04C	STO PHKX4	COMPUTE START ADDR	80306800
	•		8C306810 8C306820
	. ♣	ITIALIZE BINPY BUFFER	8C306930
085E 0 1810	***		8C306840
085F 00 D400013D	SRA 16 STO L BWC	RESET WORD COUNT	8C306850
		WEST MENS COUNT	8C306860
	* CDI	NVERT NUMBER TO HEX	`8C306870 8C306880
	# #	AND STORE IN PINARY BUF	80306890
0861 00 6660013D	PHKY5 LDX I2 BWC	SET VO TO NAME	80306900
0863 00 7600013D	MOX LZ BINRY-I	SET X2 TO NEXT  * AVAILABLE SPACE -1	8C306910
0865 0 6A0C 0866 0 6A16	STX 2 PHKYI+1	THE CHIEF STAGE -1	8C306920 8C306930
0866 0 6416 0867 00 65300848	STX 2 PHKY3+1		8C306940
0869 00 758008AA	LDX II PHKX2 MDX II PHKX4	SET XI TO STAPTING	8C306950
086B 00 678008A8	LDX I3 PHKX2	* ADDR + NUM CHAR/WD SET X3 TO CHAR/WD	8C306960
086D 0 C100	PHKY2 LD I O	GET NUMBER	80306970
086E 00 44000900 0870 0 0010	BST L PCKB	CONVERT TO BINARY	8C306980 8C306990
0871 00 D700G000	PHKYC DC 16 PHKYL STO L3 0	LIM CK = 16 OR 10	80307000
0873 0 71FF	PHKY1 STO 13 0 MDX 1-1	PLACE IN BINRY BUFF	80307010
0874 0 73FF	MDX 3 -1	SKIP WHEN DONE	8C307020
0875 0 70F7	MDX PHKY2	SATE WILL DOME	8C307030 8C307040
0876 00 740008AF 0878 0 7037	MDX L PHDSW+0	CK HEX-DEC SM	80307050
00.00 0 1037	MDX PDKY1	BRANCH TO DEC RT	80307060
	*	K BINARY	8C307070
0576 40	*	N DI YARI	8C307080
0879 00 678008A8 0878 0 10A0	LDX 13 PHKX2	SET F3 TO CHAR/WD	8C307090 8C307100
087C 00 C7000000	SLT 32 PHKY3 LD 13 D		80307110
087E 0 1864	PHKY3 LD 13 0 SRT 4		8C307120
087F 0 73FF	MDX 3 -1		8C307130
0980 0 70FB 0881 0 63FC	MDK PHKY3		8C307140 9C307150
0881 0 63FC 0882 00 778008A8	LDX 3 -4	RIGHT JUSTIFY	8C307160
0884 0 1884	MDX 13 PHKX2 PHKY4 SRT 4		80307170
0885 0 7300	MDX 3 0		80307180
0886 0 7001	MDX PHKY9		8C307190
0887 0 7002 0888 0 7301	MDX PHKY9+Z		8C3072 <b>00</b> 8C3C72 <b>10</b>
0889 0 70FA	PHKY9 MDX 3 1 MDX PmKY4		EC3^7220
088A 0 18D0	MDX PnKY4 RTE 16		8C307230
088B 00 D6000001	PHKYF STO LZ 1	PLACE IN BINRY BUFF	80307240
088D 00 7401013D	MDX L BWC.1	BUMP WORD COUNT	8C307250 8C307260
	*		8C307270
	* BUMP	TO NEXT KEYIN FIELD	80307280
088F 0 CO18	PHKYH LD PHKX2	GET CHAR/WD	8C307290
0890 0 801A	A PHKKS	ADD ONE FOR SPACE	8C 3O 730 0
0891 0 8018 0892 0 D017	4 PHKX4	- Und TON GEAGE	8C307310 8C307320
0892 0 0017 0893 00 678008AA	STO PHKX4		80307330
0895 0 C300	LDX 13 PHKX4 LD 3 0		80307340
396 0 F015	EOR PHKX6	CK FOR TERMINATOR	8C307350
897 0 4820	BSC Z	SKIP IF FOUND	8C307360 8C307370
9898 0 70C8	MDX PHKY5	GET NEXT NUMBER	8C307370
	*	FROM RT	80307390

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0899 00 74020848				8C307410
099 00 (500000	KCM			<b>8C307420</b>
0998 00 65000000	PHKY6 LDX		RESTORE REGS	8C307430
0990 00 66006000	PHKYT LDX			80307440
089F 00 67000000	PHKY8 LDX			8C307450
0005 0 1450	SCT SAMA	0		8C307460
08 M 2 O C 803	LDD	PHKX1		8C307470
08A3 00 4C80084B	BSC		EXIT FROM SUBRT	
	<b>\$</b>		EAST THOM SUBRY	80307480
	*			80307490
0000 8480	855	E O		8C307500
08A6 0002	PHKX1 BSS		CAUT A . A	8C307510
0000 0 8A80	PHKX2 DC	_	SAVE A + Q	8C307520
08A9 0 01DE		0	CHAR PER WORD	8C307530
0000 0 AASO	PHKX3 DC	KEYIN-		8C30754G
	PHKX4 DC	0	STARTING ADDR	8C307550
	PHKX5 DC	1	CONSTANT 1	8C307560
OBAC O FFFF	PHKX6 DC	/FFFF	CONSTANT FFFF	8C307570
0000 0 DA30	PHKX7 DC	0	CONSTANT O	8C307580
08AE 0 0010	PHKX8 DC	16	CONSTANT 16	8C307590
08AF 0 0000	PHUSW DC	0	HEX-DEC SWITCH	8C307600
-	*			
	*	•	ONV NUM TO DEC AND STORE	8C307610
	*			8C307620
		`	F IN BINARY BUF	8C307630
0680 0 10A0	PDKY1 SLT	72		8C307640
00B1 0 D840		32		8C307650
1001 0 0040	SYD	PDKWA	ZERO DUT WORK AREA	8C307660
	-	_		8C307670
	*	C	K FOR 9 CH/WD	8C30768 <b>0</b>
0000 0 0000	#			8C307690
9882 0 COF5	1 D	PHKX2	GET CH/WD	8C307700
0883 00 B400092E	C+P	L PCKX1	COMPARE TO 9	8C307710
0885 0 7039	XGP 40 X	PDKYE	ERROR TOO GREAT	8C307720
0886 0 7001	4DX	*+1		8C307730
0887 0 90F3	S	PHKX5	SUB ONE	
08B8 0 D001	STO	PDKY2+1		80307740
0859 00 67000000	PDKY2 LDX	£3 0	LDX MODIFIED CH/WD	8C307750
0888 00 66800872	LDX	IZ PHKY1+1		8C307760
088D 00 768008A8	MDX	I2 PHKX2		8C307770
088F 0 6100	LDX	1 0	SET UP 1ST POWER	<b>3C3O778O</b>
08CO O C200	PDKY3 LD	2 0	CTT DIA 400000	8C307790
08C1 00 A50008F6	4		GET BIN NUMBER	8C307600
08C3 0 71FC		A1 PDKX2	MULT BY POWER	8C307810
08C4 0 7009	MDX	1 -4	CK FDR CH/WD GRT 4	8C307820
	MDX	PDKYH	CH/WD GRT 4	8C307830
	PDKYJ HDX	14		8C30/840
	SLA	0		8C307850
08C7 0 882A	AD	PDKWA		8C 307860
08C8 0 D829	STD	PDKWA		8C307870
0809 0 7101	MOX	1 1		8C307880
08C4 0 72FF	MDX	2 -1		8C307890
08CB 0 73FF	XCP.	3 -1		
98CC 0 70F3	MDX	PDKY3		8C307900
06CD 0 7003	MD X	PDKY6		80307910
08CE 0 18D0	PDKYN RTE	16	CHIUD COT A	8C307920
OSCF O AOZA	M	PDKX1+3	CH/WD GRT 4	8C307930
08D0 0 70F4	PDX	PDKYJ	MULTIPY BY 10,000	8C307940
	*			8C307950
		£ K	FOR SIGNED NUMBER	8C307960
0801 0 C006				8C307970
09D2 00 B400092E	PDKY6 LD	PHKX2		80307980
	CMP	L PCKX1	CONS 9	BC307990
	MDX	PDKYE	ERROR TOO GREAT	8C308000
0805 0 7001	MDX	*+1		8C308010
0806 0 7009	MDX	PDKY7	CK SIGN	8C308020
	•	CK	FOR CH/WD GREATER	80308030
	*		THAN 5	80308040
08D7 0 CODO	LD	PHKX2	- -	8C308050
08D8 0 B026	CMP	PDKX3	CDNS 5	
08D9 0 700F	MOX	PDKY8		8C308060
08DA 0 7001	MOX	*+1		80308070
· <del> •</del>	,	~~ #		80308080

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BK EJIT CONTROL

08DB 0 700F	MD	X PDKYA	GO TO CK FOR /7FFF	8C308090
	*			8C308100
	*	12	NGLE PRECISION NUMBER	8C308110
	•		THE THEOLOGICAL MONDER	
OBDC 00 66800872	PDKYF LD	X 12 PHKY1+1		8C308120
08DE 0 C014	LD	PDKWA+1	GET CONV NUMBER	8C308130
OBDF U TOAB	MD		OCI COMA MOMBER	AC308140
	*		DAFFT CION	90308150
08E0 0 C200	PDKY7 LD	2 0	RRECT SIGN	8C308160
08E1 00 4C1808E9	851			80308170
08E3 0 10A0			- TOS NOTE	8C308180
08E4 0 980D	ST.		CHANGE SIGN	80308190
05E5 0 DA00	SD	PDKWA		80308200
	PDKY9 ST			80308210
08E6 CO 7402013D	MD			EC308220
08E8 0 70A6	MD			8C308230
08E9 0 C808	PDKY8 LDD		DOUBLE PREC POS NUMB	80308240
08EA 0 70FA	MD	PDKY9		9C308250
	*	CK	LESS THAN OR EQ /7FFF	8C 30 82 60
08EB 0 C806	PDK YA LDE	PDKWA		80308270
08EC 0 9807	SD	PDKX4	CONS 000008000	
08ED 00 4C2808DC	BSC		BRANCH TO SINGLE PREC	80308280
08EF 00 44800132	PDKYE BSI		DARROTT TO STRUCE PREC	8C308290
08F1 0 0BB2	DC	PCKBE		8C308300
08F2 0000	855			BC308310
08F2 0002	PDKWA BSS		11004 4054	8C308320
08F4 0 0000	PDK X4 DC	-	WORK AREA	90308330
08F5 0 8000	DC	0	CONS /00008000	80308340
08F6 0 0001	PDKX2 DC	/8000		8C308350
08F7 0 000A		1	CONV TABLE	80 308360
08F8 0 0064	PDKX1 DC	10		80308370
	DC	100		80308380
	DC	1000		80308390
	DC	10000		8C308400
08FB 0 000A	DC	10		8C308410
08FC 0 0064	DC	100		8C308420
08FD 0 03E8	DC	1000		8C308430
08FE 0 2710	DC	10000		8C308440
08FF 0 0005	PDK X3 DC	5	CONS 5	8C308450
	*			80308460
	*			
	*			80308470
	•			8C308480
	*			8C308490
		KEV	BOARD TO BINARY RT	8C308500
	*	NL I	DOWND IN BINGKE KE	8C308510
0900 0 0000	PCKB DC	0		8C308520
0901 0 6B27	STX	3 PCKBX+1	FAUF wa	8C308530
0902 0 D029	STÔ	-	SAVE X3	8C308540
0903 00 C4800900	LD	PCKBA	SAVE NUMBER	8C308550
0905 0 D001		I PCK8	GET LIMIT CK	80308560
0906 00 67000000	510	PCKE1+1		8C308570
0908 00 C7000A5E	PCKBI LDX	L3 0	SET X3 TO LIM CK	80308580
090A 0 F021	LD	L3 KECOD	TK OB CODE	80308590
0908 00 40180922	EOR	PCKBA		80308600
	BSC	L PCKB3,4-	BRANCH IF FOUND	80308610
	MDX	3 -1	SKIP IF ILLEGAL	90308620
090E 0 70F9	MDX	PCKB1+2		8C308630
090F 00 C40008A8	FD	L PHKX2	CK FDR 9 CHAR FIELD	8C308640
0911 0 9010	S	PCKXI		8C308650
0912 00 4C20091F	BSC	L PCKB4.Z	GO TO ERPOR IF NOT 9	
0914 0 CO17	LD	PCKBA	CK FOR +	8C308660
0915 0 F019	EOR	PCKX2		8C308670
0916 00 4C180926	BSC	L PCKBX-2,+-		8C308680
0918 0 CO13	LD	PCKBA		8C308690
0919 0 F016	EOR	PCKX3	CK FOR -	8C308700
091A 00 4C2U091F	BSC		CO TO FRANCE	8C308710
0915 00 C4000BBE	LD		GO TO ERROR. NO +	8C308720
091E 0 7007		L PCKX4		8C308730
091F 00 4480013Z	NOX NOX	PCKBX-2		8C308740
0921 0 OBB2	PCKB4 BSI	I SER	IMPROPER KEY CODE	8C308750
	DC	PCKBE	# I.E NOT 0-9 OR 0-F	BC308760

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242264 SK EDIT CONTROL 0922 0 73FF PCKB3 MDX 3 -1 80308770 0923 0 1000 SLA PC 308780 0924 0 6808 3 PCKBB STX 0925 0 C007 80308790 LD PCKRR GET CONVERTED NUM 80308800 0926 00 74010900 MOX L PCKB.1 80308810 0928 00 6700000 PCKBX LOX L3 0 RESTORE X3 80308820 092A 00 4C800900 BSC I PCKB 80308830 0920 0 0000 80308840 PCKBA DC ORIGINAL NUMBER 092D 0 0000 80308850 PCKBB DC 0 CONVERTED NUMBER 80308860 092E 0 0009 PCKX1 DC 80308870 092F 0 8000 PCKX2 DC /8000 0930 0 4000 BC3CRRRO PCKX3 DC /4000 80308890 80308900 80308910 80308920 PUNCH EDIT CARD DUTPUT ROUTINE 80308930 80308940 0931 0 0000 PECOR DC 0932 00 DC000986 80308950 STD PECX1 SAVE REGISTERS 0934 0 2850 80303960 STS PECOS 0935 0 1810 80308970 16 0936 0 6955 80308980 PECYF STX 1 PECY1+1 0937 0 6A56 80308990 XTZ 2 PECY2+1 0936 0 6857 80309000 STX 3 PECY3+1 0939 00 4480012C 80309010 BSI I KEY PRINT EDIT CARD LIST 0938 0 08C9 80309020 DC PECXF # MESSAGE 093C 0 0000 80309030 80309040 80309050 80309060 READ A CARD AND VERIFY 8C309070 * THAT IT IS BLANK 60309080 80309090 093D 00 66000442 LDX LZ SEIB SET X2 = ED IMAG BUF 80309100 093F 00 650001E0 LDX LI KEYIN+1 X1 = OPT REG 0941 00 0C000B38 80309110 PECY7 XIO L RDSW READ DATA SWS 80309120 0943 00 C4000B3A LD L DTSW GET SWS BC309130 0945 00 4C28094B BSC L PT++Z BRANCH IF P T 80309140 0947 0 1001 SLA 80309150 0948 00 40280948 BSC L PT,+Z BRANCH IF BOTH 80309160 0944 0 7007 MDX NTPT NOT PAPER TAPE 80309170 0°48 00 44000817 8 S T 1 PPT PUNCH LEADER SRC 8C309180 094D 00 C4000B3A LD L DTSW GET SWS 80309190 094F 0 1001 SLA 80309200 0950 00 40100966 BSC L PECYE .-BRANCH IF NOT BOTH 80309210 0952 0 0868 NTPT XID PECX5 SENSE DSW 80309220 0953 00 4C0409A8 BSC L PECY6.E XFER IF NOT READY 80309230 0955 0 0866 XID PECX4 READ A CARD 80309240 0956 0 0867 PECY4 XIO PECX5 SENSE DSW 80309250 0957 0 1801 SRA CK BUSY 80309260 0958 00 40040956 BSC L PECY4.E XFER IF BUSY 80309270 095A 0 180C SRA 80309280 0958 00 4C0409AE BSC L PECY8,E XFER IF ERROR ON 80309290 095D 0 0862 XIO PECX6 RESET DS# 80309300 80309310 CK FOR BLANK CARD 80309320 095E 0 1810 80309330 SRA 16 095F 0 6350 80309340 LDX 3 80 80309350 0960 00 EF0001DF PEE YS OR L3 KEYIN 80309360 0962 0 73FF MDX 3 -1 0963 0 70FC 80309370 MDK PECY5 80309380 0964 00 40200952 BSC L NTPT.Z 80309390 80309400 BLANK OUT OUTPUT BUFF 80309410 0966 0 1810 80309420 PECYE SRA

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3 -80

0967 0 6380

PROG ID 08C3

80309430

80309440

8K EDIT CONTROL

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

0968 00 D7000230 PECYA STO L3 KEYIN+81 096A 0 7301 80309450 MDX 3 1 RC309460 0968 0 70FC MUX PECYA 80309470 80309480 096C 00 6700FFB0 LDX L3 -80 SET X3 = CCL CONTROL 80309490 80309500 SET E INTO OUTPUT AREA 096E 00 C4000A6D 80309510 LD L PEIXZ 0970 0 D100 80309520 STO 1 0 0971 0 7301 90309530 #Dx 3 1 80309540 8C309550 SET PID INTO OUTPUT APEA 80309560 0972 0 C200 80309570 I D 2 0 80309580 0973 0 1008 SLA 80309590 0974 0 4051 851 PBIHX CONV TO HEX AND SRC 80309600 * STORE IN DUTPUT 80309610 80309620 EK FOR END OF ED CD DIR 80309630 0975 0 C201 80309640 f D 2 1 0976 00 F4000BC8 80309650 EDR L PECXD 80309660 0978 00 40200995 SSC L FECYB.Z BRANCH IF NOT END CD 80309670 0974 00 C400GBC8 LD Ł PECKD SET FFFF EDIT SND 80309680 0970 0 4049 PBIHX 351 CONV AND STORE SRC 80309690 0970 0 4061 BSI PED PUNCH CARD SRC 80309700 097E 00 44000A0A BSI L PPECD PRINT THE EDIT CARD 0980 00 C4000B3A 80309710 DTS# LD GET SWS 0982 00 4C28098B 80309720 5 SC PECYI .+Z BRANCH IF NOT CARDS 0984 0 0835 80309730 XIO PECKC STACKER SELECT 0985 0 083C 80309740 XID PECX7 FEED A CARD 0986 0 0837 80309750 PECYC XIO PECX5 SENSE DSH 0987 0 1801 80309760 SRA 0988 00 40040986 80309770 BSC L PECYC.E 80309780 098A 0 0835 XID PECX6 RESET DSW 80309790 80309830 0988 00 65000000 PECYL LOX LI O RESTORE REGS 80309810 0980 00 66000000 PECYZ LOX LZ O 098F 00 67000000 80309820 PECY3 LOX L3 O 0991 0 2000 80,309830 PECOS LOS 0992 0 0823 85305840 LDD PECKE 0993 00 40800931 80309850 BSC I PECOR EXIT FROM ROUTINE 80309860 SET CARD NUMB IN OUTPUT 0995 0 C201 80309870 PECYB LD 2 1 0995 0 E821 80309880 PECX3 DR ADD IN ED 0997 0 402E 80309890 851 PSIHX CON/ AND STORE SRC 80309900 80309910 SET NUMB ENTRIES PER CARD 80309920 0998 0 C202 80309930 t D 2 2 80309940 0999 0 1888 SRT 80309950 099A 0 1810 SRA 16 099B 0 1088 80309960 SLT 099C 0 DOIC 80309976 STO PECKE SAVE 099D 0 4028 80309980 BSI PBIHK CONV AND STORE 80309990 MOVE DATA TO OUTPUT BUFF 099E 0 C203 8C310000 PECYD LD 2 3 099F 0 4026 80310010 BSI PBIHX CAV AND STORE SRC 09A0 0 7201 8C310020 MDX 2 1 BUMP IMAG BUF ADDR 09A1 00 74FF09B9 80310030 MDX L PECKE .- 1 DECREMENT ENTRIES/CD 09A3 0 70FA 80310040 KDX PECYD 0944 0 403A 80310050 BSI PED PUNCH A CARD 09A5 0 4064 80310060 BSI PPECD PRINT CARD SRC 80310070 7203 MDX 2 3 80310080 09A7 0 70A5 MDX PT+Z BRANCH 80310090

DATE 04NOVE EC NO. 415233

09AA O OBBE

717

09A8 00 4480C12C

PECY6 BSI I KEY

PECKS

PROG ID 08C3-0 PAGE 8A

80310100

80310110

80310120

PART NO. 2242764

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8K EDIT COM	NANCE DIAGNOSTI N <b>trol</b>	IC PRO	SKAM FUR EF	JE 1000 2121EM	PART ND. 224226 PAGE 9
09AB 0 000		DC WAIT	0 3	1442 NOT READY =RD1	6C310130
			•	*PUSH START TO RETRY	8C310140 9C310150
9AD 0 709	-	MDX	PECY7	BRANCH	8C310160
9AE 00 448	*				8C310170
980 0 OBB		00	I KEY PECX9		86310180
981 0 000		DC	0	1442 READ ERROR	8C310190 8C310200
982 0 080	00	XIO	PEC X6	RESET DSW	8C310210
983 0 300		TIAN	4	PUSH START TO REREAD	80310220
984 0 708	€ •	MDX	PFCY7	BRANCH	8C310230
986 000	-	855	E O		8C310240
986 000			2	SAVE A + D	8C310250 8C310260
988 0 EDO	D PFCX3	DC	/ED00	- · · · - · · · ·	8C310270
989 0 000			0	ENTRIES PER CARD	80310280
984 0 000 988 0 148		ם סכ	0	STACKER SELECT TOCC	80310290
98C 0 01E			/1480 KEYIN+1	READ A CARD IDCC	8C31030C
9BD 0 160		DC	/1600	ACAD A CAND 1000	8C310310 8C310320
9BE 0 000		DC	0	SENSE 1442 DSW	8C310330
9BF 0 170		DC	/1700		80310340
900 0 000 901 0 170			0	SENSE AND PESET DSW	8C310350
902 0 000	_	DC	/1703 0	FEED A CARD IUCC	80310360
903 0 140		DC	/1402	VELD A CARD IDCC	8C310370 8C310380
9C4 0 01E	O PECKE		KEYIN+1	PUNCH A CARD IDCC	8C310390
905 0 150		DC	/1500		80310400
	*				8C310410
			RINARYT	D HEX CARD IMAGE RT	8C310420 8C310430
				o men onno smoe wi	8C310440
906 0 000			0		8C310450
9C7 0 18D	0 *	RTE	16	PUT BIN WORD TO BE	8C310460
908 0 691	-	STX	1 PBIY1+1	* CONVERTED IN Q REG SAVE X1	80310470
909 0 6A1		STX	2 PBIY2+1	SAVE X2	8C310480 8C310490 .
9CA 0 610		LDX	1 4	SET LOOP CONTROL	6C31C500
9CB 0 1810			16	CONV CHAR TO HEX	8C310510
9CC 0 1084 9CD 0 D00		SLT	4		8C310520
9CE 00 660		STO LDX	*+1 L2 0		80310530
9DO 00 C60	0045F		L2 KECOD+1	GET HEX FOUTY	8C310540 8C310550
9D2 00 D70			L3 KEYIN+81	a ser a comment of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series	80310560
9D4 0 7301		MDX	3 1	BUMP TO NEXT OUTPUT	8C310570
9D5 <b>0</b> 100( 9D6 <b>0</b> 71F(		SLA MDX	0	NOP	80310580
9D7 0 70F	_	MDX	1 -1 P81Y3		8C310590
9DB 0 7301	l	MDX	3 1	PUT BLANK IN OUTPUT	8C310600 8C310610
909 00 6500			L1 0	RESTORE XI	8C310620
9DB 00 6600			L2 0	RESTORE X2	8C310630
9DD 00 4C80	)U966 *	BSC :	I PBIHX		8C310640
	•		PIIA	ICH A CARD ROUTINE	85310650 86310660
PDF 0 0000		DC	0	SE	8C310660 8C310670
9E0 00 C400			L DTSW	GET SWS	90310680
9E2 00 4C28			. HB05,+Z	BRANCH IF P T	FC310690
9E4 0 1001 9E5 00 4C28		SLA BSC L	1	DOANEL TE ATT	8C310700
9E7 00 C400			. HB05++Z . KEYIN+80	BRANCH IF BOTH	80310710
E9 0 E81F		OR .	PEDX1	* AT END OF OUTPUT	8C310720 8C310730
EA 00 D400		STO L	. KEYIN+80		8C310740
EC 0 08D1			PECX5	SENSE DSW	80310750
9ED 00 4CO4	いいを養	2 T 1	. PEDY1.E	XFFR IF NOT DOV	80 21 024 0

XFER IF NOT RDY

STACKER SELECT

PUNCH CARD

SENSE DSW

CK BUSY

04N0Y66 415233

09EF 0 08CA

09F0 0 08D3

09F1 0 08CC

09F2 0 1801

DATE EC NO.

maganacoacynoscopyra minocoath ar onlain in adjirdd i triuddiennini i tri

PECXC

PECXB

PECX5

XIO

XIO

SRA

PEDY2 XIO

PROG 10 08C3-0

8C310760

80310770

80310780

80310790

80310800

BC310930 0402 0 088D PEDY3 XID PECX6 RESET DSW 80310940 0A03 00 4480012C BSI I KEY 80310950 0A05 0 0BBF DC PECX9 8C310960 0A06 0 0000 80310970 WAITT WAIT 0A07 0 3007 7 1442 ERROR AFTER 80310980 * PUNCHING **8C310990** 0A08 0 70E3 MDX PEDY4 BC311000 8C311010 0A09 0 0008 PEDX1 DC /0008 END OF PUNCH BIT 80311020 8C311030 8C311040 90311050 8C311060 CONVERT CCD TO EBDIC + KEY 80311070 08011636 PPECD DC 040A 0 0000 /0000 80311090 0408 0 692B STX 1 PPEY5+1 SAVE XKS + A + Q 80311100 DAGE O 6AZE STX 2 PPEY6+1 80311110 0A0D 0 6B2D STX 3 PPEY7+1 80311120 0A0E 0 0833 STD PPEX3 8C311130 8C311140 80311150 0A0F 00 650001DF LDX L1 KEYIN INITIALIZE ROUTINE 80311160 0A11 00 6D0001DE STX LI KIWC 80311170 0A13 0 6380 LDX 3 -80 PC311180 0414 0 6202 LDX 2 2 80311190 0A15 0 61EF PPEY4 LDX 1 -17 RESTORE KECOD POINTR 9C311200 0A16 00 C7000230 PPEY2 LD L3 KEYIN+81 FETCH KEYBD CHAR 80311210 EOR L1 KECOD+17 C418 00 F5000A6F RC311220 OA1A 0 1804 80311230 BSC L PPEY1 +-0A18 00 4C180A1F BR IF COMPARE BC311240 MDX 11 0A1D 0 7101 8C311250 OALE O TOFT MDX PPEYZ TRY NEXT CHAR 80311260 BC 311270 80311280 CA1F 00 C5000AA3 PPEYL LD LL KTILT+16 PACK 2 EBDIC CHARS 80311290 0A21 0 1008 SLA 8 80311300 0A22 0 18D8 RTE 24 86311310 MDX 2 -1 MDX PPEY3 0423 0 72FF SKIP IF DONE THO CHA RS 80311320 0A24 0 7019 FETCH NEXT CHAR 80311330 0A25 0 6202 LDX 2 2 80311340 OC81 0 8540 RTF 16 BC311350 0427 GO D48001DE STO I KINC PLACE IN DUTPUT AREA 80311360 CA29 00 740101DE MCX L KIWC.1 NEXT STORAGE AREA EC311370 0A28 0 F015 EDR PPEX2

BSC L PPEY3,Z

KEYIN

PPEX3

STX II KIWC

BSI I KEY

PPEY8 LDX 1 -1

DC

LDD

PPEY5 LDX L1 /0000

PPEY6 LDX L2 /0000

PPE Y7 LDX L3 /0000

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

SRA

XIO

DC

MDX

PEDY1 XID

WAITS WAIT

PEDEX BSC I PED

BSC L PEDY2.E

BSC L PEDY3.E

BSI I KEY

PECX6

PECX5

PEC X9

PEDY4

6

XFER IF BUSY

RESET DSW

SENSE DSW

EXIT

XFER IF ERROR ON

1442 NOT RDY=PUNCH)

BR - NOT DBLE BLANK

GO PRINT WHOLE EDIT

RESTORE XRS. A AND O

SET TERM

MSG AREA

BK EDIT CONTROL

09F3 00 4C0409F1

09F6 00 4C040A02

09F9 00 4C8009DF

09FC 00 4480012C

09F5 0 180C

09F8 0 08C7

09FB 0 08C2

09FE 0 088F

09FF 0 0000

04J0 0 3006

0A01 0 70EA

DATE EC NO. 2132386

042C 00 4C200A3E

DAZE OO SDBOOIDE

0A31 00 4480012C

0A36 00 65000000

0A38 00 66000000

043A 00 67000000

047E 0 61FF

0433 0 010F

0834 0 0000

9435 0 C80C

PROG ID 08C3-0

&C 311380

8C311390

EC 311400

80311410

80311420

80311430

80311440

80311450

BC 311460

8C311470

80311480

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80310810

80310820

90310830

80310840

BC310850 80310860

80310870

8C310880

80310890

80310900

80310910

80310920

5 X

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART ND. 2242264 PAGE 10		IBM MAINTENANCE DIAGNOSTIC PRO	DGRAM FOR THE 1800 SYSTEM	PART NO. 2242764 PAGE 104
8K EDIT CONTROL	42	; •	SK EDIT CONTROL		

							PAGE	1
8K EDI	T CONTROL						47	
								`
	D 4C800A0A	*	BSC	1	PPECD	FXIT TO USER	8C311490 8C311500	
OASE O	7301	PPE Y3		3	1	SKIP IF DONE	8C311510	
0A3F 0	7005 70ED		MDX		PPEY4 PPEY8		8C311520	
	1020	•	-IU K		PPE10		8C311530 8C311540	
0A41 0	4040	PPEX2			/4040	DOUBLE SPACE EBDIC	8C311550	
0A42	0002	PPE X3	BSS	£	2	SAVED A AND Q	8C311560	
							8C311570	
		*				*	8C311580 8C311590	
		*				KEYBDARD CODES	8C31160G	
0444	0000	w c 1. c	855	E			8C311610	
0444 0 0445 0	0000 0F02	KSAZ	DC DC		/0000 /0F02	SENSE-NO RESET	8C311620	
0A46 O	0000	KMSG	DC		/0000	MESS ADRS	8C311630 8C311640	
0A46		KECGD			KMSG		8C311650	
0447 0	0000	KOUT	DC		/0000	ROT-TLT OUTPUT TABLE	8C311660	
0448 O	0000 0000		DC		/0000		8C311670	
CA4A C	0004	K0004	DC DC		/0000 4	CONSTANT	80311680	
		*	-		•	C DIES I MIE I	8C311690 8C311700	
OA4B O	4400	KŁ	DC 3G		/4400		8C311710	
0A4E 0	0000	KAQ	20		0	ACC	80311720	
OA4D O OA4E O	0000 0000	KBDA	DC		0	Q REG	8C311730	
OA4F O	0F03	KRDY	DC DC		/0000 /0F03	SENSE - RESET CMND	8C311740 8C311750	
0A50 0	OA4E	KPRT	סכ		KRDY	PRINT COMMAND	8C311760	
0A51 C	0902		DC		/0902		8C311770	
0A52 0	0000	KPCD	DC		/0000	KBD PROCEED COMMAND	8C311780	
0A53 0 0A54 0	0C02 01DF	KRED	DC DC		/0002	2515 420 6044110	8C311790	
0A55 0	0A02	KKEU	סכ		KEYIN /OAO2	READ KBD COMMAND	8C311800 8C311810	
0A56 0	0001	KONE	30		1	CONSTANT 1	8C311820	
0A57 0	8120	KN	DC		/8120	UPPER CASE N	8C311840	
0A58 0	8060	KY	DC		/8060	Y	8C311850	
0459 0 0454 0	4420 FFFF		DC DC		/4420 /FFFF	*	8C311860	
OA5B O	8420	KECPD			/8420		8C311870 8C311880	
OASC O	80A0		DC		/80A0	+	8C311890	
OASD O	4000	_	DC		14000	-	8C311900	
0A5E 0	0000	*	20		40000		8C311910	
0A5F 0	0000 2000	KECOD	DC		/0000 /2000	SPACE O	8C311920	
0A60 0	1000		DC		/1000	ĭ	8C31193 <b>0</b> 8C31194 <b>0</b>	
0461 0	0800		DC		/0800	2	8C311950	
0A62 0	0400		DC		/0400	3	80311960	
0A63 0 CA64 0	0200 0100		DC DC		/0200	4	8C311970	
0A65 0	0080		DC		/0160 /0080	5 6	8C311980 8C311990	
0466 0	0040		DC		/0040	7	8C312000	
0A67 9	0020		DC		/0020	8	8C312010	
0A68 0	0010	_	DC		/0010	9	8C312020	
0469 <b>0</b>	9000	KECAD	DC		/9000	A	8C312030	
OAGA O	8800	RECAU	DC		/8800	Ê	8C31204 <b>0</b> 8C312050	
OA6B O	8400	KC	DC		/8400	č	8C312060	
O TOAO	8200		DC		/9200	D	8C312070	
0A6D 0	8100	PBI X2			/8100	5	8C312080	
046E 0	8080		DC		/8080	F	8C312090	
0A6F 0	0002	KRE NT	DC		/0002	EPASE FIELD	8C312100 8C312110	
0A70 O	0004	KER SE			/0004	ERASE CHAR	8C312120	
0A71 0	0008	KENDK			/0008	END OF MESSAGE	8C312130	
0472 0	4100		DC		/4100	LOWER CASE N	8C312140	
0A73 0 0A74 0	2020 4220		DC DC		/2020 /4220	Y *	8C312150	
0A75 0	FFFF		DC		/FFFF	•	8C312160 8C3121 <b>70</b>	
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0A76 0	8220		DC	/8220	•	80312180
0A77 0			DC	/FFFF		90312190
GA78 0	FFFF		DC	/FFFF		80317200
0A79 O	2420	KCMA	DC	/2420	•	80312210
		****	****	********	***************	80312220
						9C312230
		*			TYPEWRITER CODES	90312240
					AND EBDIC CODES	80312250
						PC 312260
OA7A O	1607	KTGLT	DC	/16C7	G	90312270
OA7B O	26CB		DC	/2608	H	90312280
OATE O	2209		DC	/2209	1	80312290
OA7D O	7ED1		DC	/7ED1	J	80312300
OATE O	5AD2		DC	/5AD2	K	8C312310
		*				8C312320
CA7F O	5ED3	KLRT	DC	/5ED3	Ł	BC312330
0 08A0	7204		DC	/7204	Ħ	8C312340
		*				8C312350
0 18AO	96E7		DC	/96E7	x	8C312360
0 S840	5206		DC	/5206	0	SC312370
0A83 0	56D7		DC	/5607	p	8C312380
0A84 0	6608		DC	/6608	Ô	8C312370
0A85 0	6209		DC	/62D9	R	BC312400
0A86 0	9AE2		DC	/9AE2	Š	9C312410
0A87 0	9EE3		DC	/9EE3	Ť	8C312420
0A88 Q	B2E4		DC	/B2E4	Ü	80312420
0A89 0	B6E5		DC.	/8685	V	86312440
OASA U	9256		DC	/92E6	¥	
OASB O	76D5		DC			8C312450
OVOR O	1003	*	UC	/7605	N	6C312460
OABC O	A6E8	•	DC	14/50		8C312470
OABD O	D65C			/A6E8	Y	8C312480
OASE O	806B		DC	/D65C	*	8C312490
048E 0		W T D 1 T	DC DC	/8068	•	8C312500
0A90 Q	004B	KTPLT		/0048	•	8C312510
	DA4E		DC	/DA4E	•	8C312520
0A91 0	8460	_	DC	/8460	-	8C312530
0403.0	21/0	*			****	8C312540
0A92 0	2140	KTOLT		/2140	SPACE	8C312550
0493 O	C4FO	KTILT		/C4F0	0	8C312560
0A94 0	FCF1		DC	/FCF1	1	8C312570
0A95 0	D8F2		DC	/D8F2	2	8C312580
0A96 0	DCF3		DC	/DCF3	3	8C312590
0A97 0	FOF4		DC	/FOF4	4	8C312600
0498 O	F4F5		DC	/F4F5	5	8C312610
0499 0	DOF6		DC	/DOF6	6	80312620
OA9A O	D4F7		UC	/04F7	7	80312630
0A98 0	E4F8		DC	/E4F8	8	BC312640
0A9C 0	EOF9	_	DC	/E0F9	9	8C312650
						80312660
0A9D 0	3EC1	KTALT		/3EC1	A	8C312670
OASE O	IACS		DC	/1AC2	8	8C312680
049F 0	1EC3		DC	/1EC3	C	8C312690
O OAAO	3204		DC	/3704	ס	8C312700
OAA1 O	3605		DC	/3605	E	8C312710
DAAZ D	1206		DC	/1206	F	8C312720
						8C312730
O EAAO	8158	KCR	DC	/815B	CARRIER PETURN	85312740
		*				8C312750
		*			KEYBOARD ERROR MSG	8C312760
GAA4 O	D600	KFELD	DC	/D600	*	8C312770
CAAS O	D600		DC	/D60 <b>0</b>	•	8C312780
0 6440	D600		DC	<b>/</b> 0600	*	8C312790
OAA7 O	8100		סכ	/8100	CR	8C312800
GAA8 0	3600		DC	/3600	E	8C312810
O PAAO	C400		oc oc	/C400	ō	8C312820
O AAAO	C400		DC	/C400	Ö	8C312830
O BAAG	FC00		DC	/FC00	1	8C312840
OAAC O	2100		DC	/210G		80312850
				-		•

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8K EDIT CONTROL		8K EDIT CONTROL		
OAAD 0 2100 DC /2100 SP	8C312860	OAE7 CO 7402043E	MDX L LWC,2 ADD 2 Til WC	8C313540 SX 8C313550
OAAE 0 5E00 DC /5E00 L OAAF 0 2200 DC /2200 I OABO 0 7600 DC /7600 N	8C312870 8C312880 8C312890	OAE9 00 4C800ADE	BSC I LBGNR EXIT	RC313560 8C313570 8C313580
OABI O 3600 DC /3600 E OABI O 2100 DC /2100 SP	8C312900 8C312910	0450.0.000	DATA WRONG ERROR	8C313590
OAB3 O 1EOO DC /1EOO C OAB4 O 3EOO DC /3EOO A	8C312920 8C312930	OAEB 0 0000 OAEC 00 44800132	LERR DC O BSI I SER DATA WRONG	eC313600 SRC 8C313610
OAB5 O 7600 DC /7600 N OAB6 O 1EOO DC /1EOO C	8C312 <b>940</b> 8C312 <b>950</b>	OAEE O OBB2	DC PCKBE	8C313670 8C313630
OAB7 0 3600 DC /3600 E GAB8 0 5E00 DC /5E00 L	8C312960 8C312970		*	8C313640 8C313650
GAB9 0 5E00 DC /5E00 L OABA 0 3600 DC /3600 E	8C312980 8C312990	0AEF 0 0000 0AF0 0 6801	LWCC DC SE STX 3 LDO1+1	8C313660 8C313670
OABB 0 3200 DC /3200 D	8C313000 8C313010	0AF1 00 C5000000 0AF3 00 44200AF7	LD SPACE SSI L LMTRM,Z BR IF NOT SPACE	8C 31 36 8 0 8C 31 36 9 0
OABC 0 8120 KE120 DC /8120 OABD 0 8101 DC /8101 CR	8C313020 8C313030	0AF5 00 4C800AEF	BSC I LWCC EXIT	SX 8C313700 8C313710
ROUTINE TO READ ONE	8C313040		* *	8C313720 8C313730
SKELTON SECTION	8C313650 8C313060	0AF7 0 0000	*  LMTRM DC	8C313740 SE 8C313750
OABE O OOOO RDSK DC O OABF O COOS LD RDSKO GET LDR RETURN	SE 8C313070 8C313060	0AF8 0 F004	EOR LTERM	8C313760 SRC 8C313770
OACO OO D4000124 STD L /0124 SET OAC2 O 6050 LDX X /0050 BRANCH TO LDR	8C313090 8C313100	OAF9 00 44200AEB OAFB 00 4CBOOAF7	BSC I LMTRM	SX 8C313780
OAC3 OO 4CBOOABE RDSK1 BSC I RDSK EXIT OAC5 O OAC3 RDSXG UC RDSK1 RETURN	SX 8C313110 8C313120	OAFD 0 FFFF	LTERM DC /FFFF ALL BITS *	8C313790 8C313800
**************************************	* 8C313130 8C313140		*	8C313810 8C313820
* *	8C313150 8C313160		*	8C313830 8C313840
* XFER VECTOR TBLS BY FORM NO. OACG G CADM	8C313'70 8C313180		*	8C313850 8C313860
OAC7 0 GEUB DC LRTF1 1 OAC8 0 OAFE DC LRTF2 2	8C313190 8C313200	OAFE 0 0000 OAFF 0 D002	LRTF2 DC STO LCHBW SET CHR / WD	SE 8C313870 8C313880
*	8(313210 8C313220	0800 00 44800137 0802 0 0000	XAH CT TRAVNOO OD BYNHY I IZB CHOW YRANIB / RHO DO WBHOL	SRC 8C313890 8C313900
*	8C313230 8C313240	0803 0 0437 0804 00 4C800AFE	DC ZERO DISPLACEMENT ADDR BSC 1 LRTF2 EXIT	8C313910 Sx 8C313920
*	8C313250 8C313260		*	8C313930 8C313940
	8C313270 8C313280		* *	8C313950 8C313960
DAC9 0 0000 LHKA DC - HORK STORAGE AREA	8C313290	0806 0 0000	* LRTF1 DC	8C313970 SE 8C313980
GACA O 0000 LDDIT DC	8C313300 SE 8C313310	0807 0 D003	STO LCHBD SET CHR / WD	8C313990 8C314000
OACB 0 6200	8C313320 8C313330	0808 0 4006 0809 00 44800136	BSI I PDKYB GO CONVERT TO DEC	SRC 8C314010
OACE 00 65800ACA	8C313340 8C313350	0808 0 0000 080C 0 0437	LCHBD DC CHR / BINARY WORD DC ZERO DISPLACEMENT ADDR	8C314O2O 8C314O3O
OAD1 0 DOF7 STD LWKA SAVE IT OAD2 0 6901 STX 1 LWCLD+1	8C313360 8C3133 <b>70</b>	080D 00 4C800B06	BSC I LRTF1 EXIT	SX 8C314040 8C314050
OAD3 00 65800000 LWCLD LDX II LA LD FORM NUMBER OAD5 00 45800AC6 BSI II LRAIT BRANCH TO RTN	8C313380 8C313390	,	\$ \$	8C314060 8C314070
OAD? OU 74020ACA DONTI MDX L LDUIT+2 INCR RETURN GAD9 00 40800ACA BSC I LDOIT EXIT	8C313400 SX 8C313410	OBOF 0 0000	* LTRFX DC	8C314080 SF 8C314090
CADE O 2000 DONT DC C	8C313420 8C313430	0810 0 40CD 0811 00 67800AC9	BSI LBGNR GO SET UP FOR FORM LDX I3 Lwk4 LD CHAR / WC CNT	8C314100 8C314110
OADC OO 4COODAD7 BSC L DONT1	8C313440 8C313450	0813 0 7301 0814 0 40DA	MDX 31 BSI LWCC GO TO CHECK FORM	8C314120 8C314130
• •	8C313460 8C313470	0815 00 4C800B0F	BSC 1 LTRFX EXIT	SX 8C314140 8C314150
OADE O 0000 EBGNR DC OADE OO 650001DE EDX L1 KIMC LD INPUT TBL ADDR	SE 8C313480 8C313490		*	8C314160 8C314170
CAEL O C100 LD 1 0 LD INPUT WC	8C313500 8C313510		*	8C314180 8C314190
0AE4 00 6680043E LDX 12 LWC -	8C313520	1	PUNCH LEADER	8C314200 8C314210
OAE6 0 7201 MDX 2 1	8C313530		•	00287688
DATE 04N0V66 EC NO. 415233	PROG ID 08C3-0 PAGE 12	P DATE 04N0V66 EC NO. 415233		PROG ID 0903-0 PAGE 11A

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IBM MAINTENANCE D	IAGNOSTIC PR	UGRAM	FOK THE	TROO 2421FW		PART NO. 224: PAGE
6K EDIT CONTROL						
0B17 0 0000	PPT DC	(	1		SE	8C314220
OB18 O 6303	PPT1 LDX	3		SET IXING		BC314230
0819 O CO09	PPTIA LD		WDCT	SET WD CT		8C314240
081A 0 D018	STO		CHOUT			8C314250
OB1B 00 C7000B23	LD		LEADF-1	GET PATTERN		80314260
0B1D 0 D014	STO		TUGIX	SET PUNCH TAPE	SRC	8C314270 8C314280
091E 0 4008 0B1F 0 73FF	5 S I K G M		PUTAP	DECR IX 3	246	80314290
0B20 0 70F8	X C M		PPTIA	LOOP		8C314300
0821 00 40800817	850		PPT	EXIT	SX	8C314310
						8C314320
OB23 0 0019	WOCT DC		25	WD CT		8C314330
0B24 0 7F00	LEADE DC		/7F00	PATTERNS		8C314340 8C314350
0825 0 0000 0826 <b>0 7F00</b>	3C		/0000 /7F00			8C314360
0520 0 1100	*		,,			8C314370
	*		PUNC	H TAPE		8C314380
			_			8C314390
OB 2 7 O 0000	PUTAP DC		0	SENSE	SE	8C314400 8C314410
0628 0 080B	BCK XIC		SEN55	SENSE		80314420
0829 0 1808 0824 00 4C040828	SR A B S C		8 BCK.E	BRANCH = NOT READY		80314430
082C 0 0809	X10		PUNK	PUNCH A CHR		8C314440
082D 00 74FF0833	MD)		CHOUT1	DECR WD CT		8C314450
0B2F 0 70F8	MDX	(	BCK	LODP		8C314460
0930 00 4C800B27	BSC	I	PUTAP	EXIT	SX	80314470
	*		•			8C314480 8C314490
0832 0000 0932 0 0000	BSS XIDUT DC		0 0	DUTPUT AREA		8C314500
0933 0 0000	SQ TUCHS		0	WD CT		8C314510
0B34 0 0000	SENSS DC		ŏ	SENSE TOCC		80314520
0B35 0 1F01	DC		/1F01			8C314530
OB36 O OB32	PUNK DC		XIOUT	PUNCH IDCC		80314540
0837 0 1900	DC		/1900	RD SWS IOCC		8C314550 8C314560
0838 0 083A 0839 0 0240	RDSW DC		DTSW /0240	KO 3W3 TOCC		8C314570
0B3A 0 0000	DTSW DC		0	SW STORAGE		8C31+580
0052 0 0000	*		-			8C314590
	*		CONV	ERT AND PUNCH		80314600
	*		F 4 F . E	SAVE IXING		8C314610 8C314620
0838 0 6909	HBO5 STX		EXT+1 EXT1+1	SAAE INTAG		8C314630
083C 0 6A0A 083D 0 6811	ST) ST)		EXT2+1			8C314640
083E 00 6500FF80	£0;			SET IXING		8C314650
0840 00 C5000230	LD		KEYIN+81	GET A HD		8C314660
0842 00 4C200B56	B S (	-	HE05A+Z	BRANCH IF NOT O		8C314670 8C314680
0344 00 65000000	EXT LD			RESTORE IXING		80314690
0546 00 66000000 0548 00 C4000141	EXTI LDX		U Binry+3	GET CD NO		8C314700
0848 00 F4000141	EOF		TERM	CK FOR END CD		8C314710
084C 00 44180B17	851	_	PPT.+-	PUNCH TRAILER IF END		80314720
084E 00 67000000	EXT2 LD	L3 1				8C314730
0850 0 COE9	LD		DTS#	GET SWS		8C314740 8C314750
0351 0 1001	SLA		1 PEDEX:-	BRANCH IF NOT BOTH		8C314760
0852 00 4C1G09F9 0854 00 4C0009E7	B S 0 B S 0		PEDEX	PUNCH CARD		8C314770
0854 00 4C0009E7	4805A SRA	_	16	CLEAP ND CT		80314780
0857 0 D022	ST		PCAM			8C314790
0858 0 7101	4806 MD)	1	-	DECR IX 1		80314800
0859 0 7001	MD		HB07	CONTINUE		8C314810 8C314820
085A 0 7022	COM TOOL		LBO6	PUNCH CARD SET 4 CHRS		8C314630
0858 0 6204	HBO7 LD		4	MOVE CHR		8C314840
085C 0 1004 085D 0 D01E	MBIO ST		TEMP1	SAVE		80314850
085E 00 C5000230	LD.		KEYIN+81	GET WD		8C314860
0860 00 4C18087D	B S (		LB06 +-	BRANCH IF O		80314870
0862 0 6300			O.	SET COUNTER		8C314880

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80314890

80314900 0864 0 7309 YES MDX 3 9 0865 0 1003 SLA 3 BSC L HTBZ++-REMOVE ZONE PC314910 80314920 BRANCH IF O 0866 00 4C18086F INCR CTR 80314930 0868 0 7301 MDX 3 1 50314940 HTDB1 BSC L HTBX++Z BRANCH IF NEG 0869 00 4C28086D 1 HT081-1 0568 0 1001 SLA MOVE BIT 90314950 80314960 086C 0 70FB MOX BRANCH 086D 0 680D HTBX STX 3 TEMP SAVE CT 80314970 TEMP 036E 0 C00C GET CT 80314980 LD 086F 0 E80C MTBZ OR TEMP1 ADD TO SAVED PC314990 0370 0 7101 MDX 1 1 DECR IX 1 PC 315000 0871 0 72FF MOX 2 -1 DECR IX 2 80315010 MDX HB10 LOOP 80315020 0872 0 7089 LDX 13 PCAM SET IX 3 80315030 0873 00 6780087A STO L3 BINRY+2 80315040 0875 00 D7000140 SAVE 0377 00 74010B7A MDX L PCAM.1 INCR LOC 80315050 0879 0 70DE XCM 80315060 LOOP 4806 80315070 PCAM DC STORAGE 80315080 037A 0 0000 80315090 0378 0 0000 0 TEMP1 DC 82315100 087C 0 0000 0 80315110 PUNCH EDIT 80315120 90315130 087D 0 C02C LEO6 LD H8100 GET E 80315140 PC315150 087E 00 0400013F STD L BINRY+1 SAVE U380 00 C40U0141 LD L BINRY+3 GET CD NO 80315160 0882 00 F4000430 ECR L TERM CK FOR TERM 80315170 0384 00 4C180BAD BSC L LBO8. +-BRANCH IF TERM 80315180 0886 00 C4000142 LD L BINRY+4 GET NO ENTRIES 80315190 FOUR ADD 4 80315200 0888 0 8022 STD LBOA+1 SAVE 80315210 0589 0 D004 MOVE 90315220 SLA 8001 0 4880 0888 00 D400013E STO L BINRY 80315230 088D 00 66000000 SET IXING 80315240 LBOA LDX LZ O LB09 LDX LI SINRY BC315250 088F 00 6500013E GET WD 80315260 LD 1 0 0391 0 C100 STO XIOUT SET 80315270 0892 0 D09F 80315280 GET 1 ONE 0893 G C014 LD 0894 00 D400C333 STO L CHOUT SET 80315290 PUNCH TAPE PUTAP SRC 80315300 0896 0 4090 BSI MDX 1 F INCR IX I BC315310 0897 0 7101 GET WD LB07 LD 1 0 80315320 0898 0 C100 STD TUOIX SET 80315330 0899 0 D098 SEY WD CT 80315340 039A 0 C00D LD ONE STO 0898 0 D097 CHOUT 80315350 PUNCH TAPE SRC 90315360 089C 0 408A BSI PUTAP 1 0 80315370 0890 0 C100 LD GET WD SET 2ND HALF 80315380 089E 0 1008 SLA STO XIOUT SET 80315390 039F 0 D09Z 08A0 0 C007 ONE GET 1 80315400 LD STO CHOUT SET WD CT 80315410 08A1 0 D091 0842 00 44000BZT BSI L PUTAP PUNCH TAPE SRC 80315420 MDX 1 1 INCR IX 1 80315430 0BA4 0 7101 MDX 2 -1 DECR IX 2 90315440 0845 0 72FF KOX LB07 LOOP 80315450 08A6 0 70F1 XCH EXT 80315460 08A7 0 709C 80315470 DO BEC CONSTANTS RC315480 1000 0 8ASC /R000 80315482 K8000 DC 0649 0 8000 H8100 DC FDUR DC 80315490 /8.00 0844 O 8100 80315500 **0848 0 0004** TREE DC 80315510 /0300 OBAC 0 0300 80315520 TREE GET 0300 80315530 OBAD O COFE LBO8 LD 6C315540 8C315550 STO L BINRY 08AE 00 0400013E SET SET IX 2 0860 0 6203 LDX 23

LB09

PDX

BRANCH

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0881 0 700D

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80315560

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DATE 04NDV66 EC ND. 415233

0862 0 6300

0863 0 4828

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HTDB LDX 3 0

BSC

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

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## AK EDIT CONTROL

0BB2	0012	PCKBE	EBC		.EOO3 CNTRL-ILLEGAL.		8C315570
0888	0006		EBC		. ENTRY.		80315580
OBBE O	FFFF	PCKX4	DC		/FFFF		8C315590
OBBF	0012	PEC X9	€ BC		.E005 CNTRL-1442 ER.		8C315600
08 <b>C8</b> 0	FFFF	PECXD	DÇ		/FFFF		8C315620
08C 9	0012	PECXF	EBC		.SSA001 CNTRL-EDIT .		8C315630
0BD2	0007		EBC		.CD LIST.		8C315640
0BD6 0	FFFF		DC		/FFFF		8C315650
OBD7	0012	SE002	EBC		.EOO2 CNTRL-ENTRY T.		8C315660
OBEO	0008		EBC		.DO LARGE.		8C315670
08 <b>E4 0</b>	FFFF		DC		/FFFF		8C315680
03E5	0012	S42	EBC		.COOD CNTRL-ENTER 2.		80315690
OBEE	9012		EBC		. DIGIT PID TO BE E.		80315700
CBF7	0005		EBC		.DITED.		8C315710
OBFA O	FFFF		DC		/FFFF		8C315720
OBFB	000F	5433	EBC		.A002 END OF PRG.		8C315730
0003 0	FFFF		DC		/FFFF		8C315740
OC 0 4	0012	LE401	EBC		.E004 CNTRL-FORMAT .		8C315750
OCOD	0002		EBC		•ER•		8C315760
OCOE O	FFFF		DC		/FFFF		8C315773
OCOF O	0000	HLTE	DC		0	SRC	8C315772
0010 0	3005	HAI T5	_		5 RELOAD REQUIRED		8C315774
0011 00			BSC	1	HLTE	SX	80315776
0C14	058A		END		STARI	8C31577	8C315786

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## CROSS REFERENCE LISTING

SYMBOL	VALUE	REFERENCES
BCK	0828	OB2A+ OB2F ,
BGNR	0438	
BINRY	013E	05A3,07CC,07DA,07E5,07EF,0863,0B48,0B75,0B7E,0B80,
		0886, 0888, 088F, 08AE
BSADR	0601	0500
BSAD1	05BB	0597,0587
BHC	013D	085F, 0861, 088D, 08E6
CHOUT	0833	OBIA, 082D, 0894, 0898, 08A1
CKYN	012D	ODEN O PED TODO TO TO DRE
CKYNE	07A4	012D, 07BC, 07BE
CKYNO	078E	07A8, 07AD
CKYNI		
CODE	078C	07B2,07B7
	0586	000/ 003#
CPID	0829	0804, 0810
DKYB	0842	0136, 0844
DONT	BDAO	OAC6
DONTI	OAD7	OADC
DTSW	OB3A	0943,094D,0980,09E0,0B38,0B50
END	05E1	05FF
ENDO	0138	
ENDI	05CD	013A, 0594, 05DD
ERR	0439	
ERR 04	060D	05A7
EXIT	0755	
EXT	<b>0B44</b>	0838,08A7
EXT1	0846	0B3C
EXT2	OB4E	0B3D
FOUR	OBAB	0888
HB05	0838	09E2, 09E5
HB05A	0856	0842
HB06	0858	0879
HB07	0858	0859
HB10	085C	0872
HKYB	084B	0137,0845,0855,0899,08A3
HLT	0585	0131100731003310039100M3
HLTE		0505 0011
HTBX	0C0F	0585,0011
	0B6D	UB69
HTBZ	086F	0866
HTOB	0862	0045
HT081	0869	086C
H8100	OBAA	0870
KAL	0A72	0681
KAQ	OA4C	0615,0659
KBKSP	072C	0725
ΧC	OA6B	
KCHK	064B	0629
KCMA	0A79	06F8
KCOMA	072A	0700
KCR	CAAS	0620,0648
KDEC	O6DD	0686
KDEC1	06DE	06DC,06E1
KEBC2	0625	0648
KEBC3	0620	0648
KEBC4	062F	0638
KEBC6	0649	063B
KECAD	0A69	0692.06E0
KECGD	0A46	06DB, 06DD, 06E 0
KECOD	0A5E	0684,06DD,0908,G9DO,0A18
KECPD	0A5B	0699, 0603
KENDK	0A71	0733
KERR	0757	06A2,06C2,6700,0730,073A,074E
KERRI	075F	0767
KERSE	0A70	0713
KEAE	0120	059F, 05E1, 07F9, 0939, 09A8, 09AE, 09FC, 0A03, 0A31
KEYE	0611	012C, 0618, 061C, 064F, 065C, 065E, 0661

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0753
                    0665.06RA
         OIDF
                    066F, 07A5, 07AA, 07AF, 0784, 08A9, 093F, 0960, 0968, 09BC.
                    09C4, 09D2, 09E7, 09EA, 0A0F, 0A16, 0A33, 0A54, 0B40, 0B5E
         0754
                    0669.0739
 KEYDG
         066B
                    076C-
 KEYO
         0671
                    0600,06DF,0710,0719,071C,0728,0735,0760,076A
 KEY1
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                    067D
 KEY2
         0677
                    067F
 KEY3
                   067A
         0650
KEY96
         0653
                    0612,0755
KEY97
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                   0613
KFY98
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                    0614
KFY99
         065B
                   0617
KFELD
         OAA4
KFMD
         06A7
                    068E.0698
KEMOI
         0648
KFMD2
         0680
                   0686
KEMS
KFMS1
         0683
                   0689
KEM2
KFM21
         0691
KFRM
         0660
                   0651
FHEX
         06E0
                   0694
KINO
         0838
                   0135-0840
KINI
        0820
                   0134,0836
KIWC
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                   066D, 06F1, 06FC, 0706, 0717, 0722, 0737, 073C, 073E, 0742,
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        OA4B
                   OGRA
KLRT
        OA7F
                   0667
KMDY
        0602
                   06AB
KMPX
        0608
                   06B3,66D5
KMSG
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KN
        0A57
                   06A9,06DB
KNRY
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KNBYO
        0775
KNBY1
        0777
                   0770
KNBY4
        0787
                   0781
KNBY5
                   0770,077A
KNEG
        076E
                   074F,0762
KONE
                   0627,0631,068C,0609,06E4,0709
KOUT
                   061E,06+0,0644,06CB,06EC
        0A47
KPCD
        0A52
                   0675
KPNE
        0509
                   0646
KPRT
        0A50
                   0793.0790
KRDY
        CA4E
                   0780,0796,0A50
KRED
        0A54
                   0671,0680,0683,0683,0691,0691,0698,0698,0732,0732
KRENT
        0A6F
                   072F
KSNS
        0A44
                   0677,0777
KSPC
        06F6
                   0684
        073E
KSPCA
                   0745
KSPCE
        074F
                   0748-074D
        0709
KSPC2
                   0704
KSPC5
        0712
                   OAFA
                   071F
KSPC6
        0725
KSPC9
        0720
KSTO
        06E2
                   06DE, 06E6, 06F4
KTALT
        OA9D
KTGLT
        OATA
                   062C.06E8
KTILT
        0A93
                   0586, 0A1F
KTIME
        0791
                   0773, 077E
KTOLT
        0A92
KTPLT
        CASF
        0792
                   0584,0642.064D,06CE,06EF,070E,0727,075A,07A0
KTYPS
        0584
KTYP1
        0793
KTYP5
        0796
                   079C
KTYP6
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KOOFF
         0610
                    05A5
 K0002
         07F3
                    050A, 06FE, 07C6
 K0003
         082C
                    081F
 K0004
         OA4A
 K1048
         0602
 K8000
         OBA9
                    06A0, 06C0
 K8120
         OABC
LBGNR
         DATE
                    0438, DAE9, 0810
 LBOA
         088D
LB06
         0B7D
                    085A, 0860
LB07
         0898
LB08
         OBAD
                    0884
 L809
         088F
                    0881
LCHBD
         0808
                    0807
 LCHBW
 LDOIT
         OACA
                    0751, OACE, OAD7, OAD9
 LD01
 LEADE
         0824
                    0818
 LEM01
         0C04
 LERR
                    0439, 0AF9
         CAEB
LGROP
         043F
                    DACC
LMTRM
         OAF7
                    0438, 0AF3, 0AFB
LRAIT
         OAC6
                   OAD5
LRTF1
                    OAC 7. 08 0D
         0806
LRTF2
         OAFE
                   0AC8.0B04
LTERM
         OAFD
                   OAFS
LTRFX
         080F
                   0430,0808,0815
LWC
         043F
                   DAEZ. DAET. DAET
LWCC
         OAEF
                   043A, 0AF5, 0B14
LWCLD
         DADB
                   OAD2
LWKA
         OAC 9
                   OAD1,0811
MTRM
         0438
NO
         0702
                   07B1
NOEN
                   0805,080E,0814,0820
         082A
NO 1
         0703
                   07B6
NTPT
         0952
                   0944,0964
ONE
         OBA8
                   OB93, CB9A, OBAO
PBIHX
         0906
                   0974,0970,0997,099D,099F,09DD
PBIX2
        OA6D
                   096E
PBIY1
         09D9
PBIY2
         09DB
PBIY3
         0908
PCAM
         OB7A
                   0857,0873,0877
PCKB
                   086E,0903,0926,0924
         0900
PCKBA
                   0902,090A,0914,0918
PCKBB
                   0924,0925
PCKBE
        0882
                   0788,08F1,0921,0AEE
                   0901,0916,091E
PCKBX
        0928
PCKB1
         0906
                   0905.090E
PCKB3
         0922
                   0908
                   0912,091A
PCK84
        091F
PCKX1
        092E
                   0883,0802,0911
PCKX2
        092F
                   0915
PCKX3
        0930
                   0919
PCKX4
        OBBE
                   G91C
PDKWA
                   08B1,08C7,08C8,08DE,08E4,08E9,08E8
        08F2
PDK X1
        08F7
                   0848,08CF
PDK X 2
        08F6
                   0801
        08FF
PDK X 3
                   08D8
PDKX4
        08F4
                   08EC
PDKYA
        08EB
                   OBDB
POKYR
        0136
                   0809
PDKYF
        08EF
                   0885,08D4
PDKYF
        2080
                   OBED
PDKYH
        OBCE
PDKYJ
        0805
                   0800
PDKY1
        0880
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IRM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM
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SK EDIT CONTROL
                                          8K EDIT CONTROL
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PDK YZ 0839 DARA PDKY3 3380 0800 PDKY6 0850 0801 PDKY7 C8EO 0806 PDKYB 0809.08E1 08E9 PDKY9 08F5 ORFA CSF 4, 0993 PECOR 0931 PECOS 0991 0934 PECXC 0984,09EF 0984 **PECXD** DRCR 0976, 097A PECXE 0989 099L.09A1 PECKE DRCQ 8590 PEC X1 0932,0992 0986 PECX3 0988 0996 PECX4 0980 0955 PECX5 OGRE 0952,0956,0986,09FC,09F1,09F8 PECX6 0900 0950,0984.0932,09F9,0A02 PECX7 0902 0985 PECX8 0904 09F0 PEC X9 OBBF 0944,0980,09FE,0405 PECYA 0968 0963 PECYB 0995 0978 PECYC 0986 0988 PECYD 099E PECYE 0966 0950 PECYF 0936 PECY1 0988 0936,0982 PECY2 0937 PECY3 0938 PECY4 0958 PECY5 0960 0963 PECY6 0953 PECY7 09AD.09B4 PECY8 09AE 095B PED 097D, 0944, 09F9 09DF PEDEN 09E7 0854 PEDEX 09F9 0852 PEDX1 0409 09E9 PEDY1 09FB 09ED PEDY2 09F1 09F3 PEDY3 0A02 09F6 PEDY4 09EC 80A0,10A0 PHDSW 08AF 0946,084E,0876 PHK X 1 08A6 0843.0840.0842 PHK X 2 08A8 0859,0867,0868,0879,0882,088F,0882,088D,08D1,08D7. 090F PHKX3 0849 9850 PHK X4 085D, 0869, 0891, 0892, 0893 AABO PHK X 5 OBAR 0890.08B7 PHK X 6 OSAC 0896 PKK X 7 OSAD 084D PHKX8 OBAE 084F PHKYB 0137 0800 PHKYC 0870 0850 PHKYD 0850 084A PHKYF 0888 ORDF PHKYH 088F 08E8 PHKYS 08A1 0851 PHKY1 0871 0865,0888,08DC PHKY2 086D 0875 PHKY3 C866, 0880 PHKY4 .0884 0889 PHK Y5 0861 0898

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PHKY6

PHKY7

PHKY8

PHKY9

PPECD

**0898** 

089F

0888

0852

0853

0854

0886,0887

097E,09A5,0A3C

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

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PPEX2
         0A41
 PPFX3
         0A42
                    OADE, DA35
 PPEY1
         OAIF
                    OAIB
 PPEY2
         0A16
                    CALE
 PPFY3
         OA3E
                    0A24, 0A2C
 PPEY4
         0A15
                    DA3F
 PPFY5
         0A36
                    DAOB
 PPEY6
         0A38
                    COAOC
 PPFY7
         DASA
                    OAOD
 PPEY8
         OAZE
                    0A40
 PPT
                    0948,0821,084C
 PPT1
         0818
 PPT1A
         0817
 PT
                    0945,0948,09A7
 PUNK
         0B36
 PUTAP
                    OB1E, 0830, 0896, 089C, 08A2
         0B27
 RDSK
                    0138,05AA,0AC3
 RDSK1
         OAC 3
                    OAC5
         0838
                    0941
 RDSXO
                    OABF
         0506
                    0503
 RLFT1
         05D2
                    0501
RLFT2
         050F
                    0500
                    0501,05CF,05D8
RLTBL
         0603
 SCH
         0131
 SCHE
                    0131,07F1
         07E4
 SCHER
         07EB
                    07E8
SCH1
                    07E9, 07FA . 07EC
         07EF
SECB
         0828
                    0803.0812
SECSE
                   0133,0800,0823,0825
        07FF
SECSU
        0133
SEIB
                    05F8,0828,093D
         0442
SEN55
         OB34
                   0928
                    0600, U789, 0703, OREF, 091F, OAEC
SER
         0132
SERE
         07F5
                   0132,07F6
SER1
SE002
         O7FB
        0BD7
                   060F,07D5
SE1
SE2
         0803
         0800
                    0809
SE3
         0817
                    0810
        07E0
SIL
SILE
        07CB
                   012F.0706
SILER
        0703
                   0700.070E.07EE
SILSE
        0709
                   0130,0710
SILSW
        0130
SIL1
        0706
                   0701.0702
        0827
                   0802 . C80A
        0832
                   0845
SKINB
        083C
                   083F
SKINO
        0135
SKIN1
        0134
SKII
        0017
                   012C,05AF,05EE
SKIZ
        OCIB
                   0120
SKI3
        0019
                   0120
SK14
        OCIA
                   OSCA.
SM2
        OBES
                   C5A1
SM33
        OBFR
                   05F 3
SRST
SRTRY
        0588
                   0594, 05AC
        0441
                   07C7,07FD
SSEUR
        0764
SSUEE
        0704
                   012F.07C5.07C9.07CB
SSUER
        012E
                   0590
STARI
        U584
                   0013
START
        0590
                   0588.0586
STBF
                   0595, 05E7, 05F 7, 0807, 081D, 0821
        0440
STBF1
        DASB
                   05F 9. 0806
STIR
                   OSFE
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PROG ID 08C3-0

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IRM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM

SK EDIT CONTROL

STTRM	05E7	0506
SV1X3	05BC	0593, 0582, 0505
500F0	07E2	07DD
SOODF	07F3	07EB
\$0008	07F4	07E7
51700	0708	07CF
52	013A	
SZE	05AA	058A, 05CC
TEMP	08 <b>7</b> 8	086D. 086E
TEMP1	0B 7C	085D, 086F
TERM	043D	0568,0504,05F1,0830,084A,0882
TREE	OBAC	OBAD
TRFX	043C	
HAITI	0798	3001
WAIT2	0785	3002
WAIT3	09AC	3003
<b>#1174</b>	0933	3004
WAITS	OC 10	3005
WAIT6	0000	3006
WAIT7	0407	3007
WAITS	05E5	3008
MCC	043A	
<b>WDCT</b>	0823	0819
XIOUT	0832	0B1D, 0836, 0392, 0899, 089+
XPID	0600	05A9.05B1
YES	0700	07A7
YES1	07C1	OTAC
7500	0437	0203 0206

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•	IBM MAINTENANCE DI	AAGNOSTIC PROGI	RAM FOR THE	1800 SYSTEM		PART NO. 2242266			IBM MAINTENANCE DIA	AGNOST	IC PRO	JGRAM FOR THE	1800 SYSTEM		hart NO. 2242266
	CPIO-DIAG MON SKEL	LETONS SKELE	TON 10-08C4-	01-0		PAGE 1	C	0	CPIO-DIAG MON SKELE						PAGE 1A
							C	o	• • • • • • • • • • • • • • • • • • • •		<b>9</b> 1,0_	.100 46 555			
	0000 012 <b>C</b> 012D	ORG Kly equ Ckyn equ	*+3095 300 KEY+1			C4010001 C4010002	C	o	0C48 00 4480012C 0C4A 1 0006		DC	I KEY	ENTER OTPT DV CH	SRC	C40100 <b>70</b>
	012E 012F	SSUER EQU SIL EQU	KEY+1 CKYN+1 SSUER+1			C4010003 C4010004 C4010005	O	o	0C4B 0 8010 GC4C 00 C40001DF OC4E 01 4C280C6D			/8010 L KEYIN L SKl.+2			C4010071 C4010072 C4010073
	0130 0131 0132	SILSW EQU SCH EQU SER EQU	SIL+1 SILSW+1 SCH+1			C4010006 C4010007 C4010008	0	o	0C50 0U 4480Ul36 0C52 0 0001		B S I DC	I PDKYB 1			C4010074 C4010075
	0133 0134 0135	SELSU EQU SKINI EQU SKINO EQU	SER+1 SECSU+1			C4010009 C4010010	0	C	0C53 0 0437 0C54 00 44800131	•			CK CH	SRC	C4010076 C4010077 C4010078
•	0136 0137	PDKYB EQU PHKYB EQU	SKIN1+1 SKIN0+1 PDKYB+1			C4010011 C4010012 C4010013	G G		OC56 01 04000D39	SK2 *		L SWB6			C4010079 C4010080 C4010081
	0138 013A 013E	ENDO EQU S2 EQU BINRY EQU	PHKYB+1 ENDO+2 S2+4			C4010014 C4010015 C4010016			0C58 01 65000D34 0C5A 0 C100	•	LD	L1 SWB1 1 0	BUILD CONS DDEF		C4010082 C4010083
	010F 0437 0438	KEYIN EQU ZERO EQU BGNR EQU	BINRY+161 KEYIN+600 ZERO+1			C4010017 C401C018	0	0	0C50 0 F101 0C5C 0 F102 0C5C 0 D100		EOR	1 1 1 2 1 0			C401008 <b>4</b> C4010085 C4010086
	0439 043A	ERK EQU WCC EQU	BGNR+1 Err+1			C4010019 C4010020 C4010021	С	Ũ	0C5E 0 C103 0C5F U F104	*		1 3 1 4	BUILD OTPUT DEV DDI	JEF	C4010087 C4010088 C4010089
	0438 043¢ 0430	NTRM EQU TRFX EQU TERM EQU	WCC+1 MTRM+1 TRFX+1			C4010022 C4010023 C4010024	G	0	OC60 0 F105 OC61 0 D101	*	EOR	1 5			C401009 <b>0</b> C4010091
•	043E 043F 044U	LWC EQU LGROP EQU STBF EQU	TERM+1 LHC+1 LGROP+1			C4010025 C4010026 C4010027	Ģ	0	0C62 01 66800C18 0C64 01 65800C17	•	LDX	12 SK12 11 SK11	SET IXING		C4010092 C4010093 C4010094
	0441 0C17 0 0001	SRTRY EQU SKIL DC	STBF+1 /0001	PIO		C401002 <b>8</b> C401002 <b>9</b>	Э	0	0C68 00 44800133	•	BSI		GO SET CD	SRC	
	0C18 0 0000 0C19 0 0002 0C1A 00 4480012E	SK12 DC SK13 DC SK14 BSI I		CD NUMBER NUMBER OF ENTRIES SET ERROR RETURN	SRC	C4010030 C4010031 C4010032	0 s	s ()	0C6A 1 0D34 0C6B 00 4C00013A 0C6D 01 C4000D3A	SK1	DC 8 SC	SWB1 L S2 L SOUOF	ADRS OF ENTRYS GET NEXT SKELTON		C4010098 C4010099 C4010100
	0C1C 00 4480012C 0C1E 1 0C70 0C1F 0 8120	BSI I DC DC	I KEY SM1 /8120	ENTER CONS IL MSG ADRS KYBD-FRM 1-2 DIGITS	SRC	C4010033 C4010034 C4010035	Q	0	0C6F 0 70E6 0C70 0012	* SM1	MDX	SK2	D 01-CD 00.		C4010101 C4010102
	0C2U 0U 4480012F 0C22 01 D4U0GD34	* 851 I		CK LVL STORE	SRC	C4010036 C4010037 C4010038	٥	0	0C79 0012 0C62 0012	3n.	E b C E B C	• ENTER 2 •CIMAL INT	2 DIGIT DE. TRPT LVL F.		C4010103 C4010104 C4010105
	0C24 UU 448U012E 0C26 UU 448U012C	* BSI I	I SSUER	SET ERROR RETURN	SRC	C4010039 C401004 <b>0</b>	0	0	0C3B 0C11 0C94 0 FFFF	*	FBC DC	.OR CONSOL /FFFF			C4010106 C4010107 C4010108
	0C28 1 0C95 0C29 0 8120	DC DC	I KEY SM2 /8120	ENTER CONS ILSW MSG ADRS		C4010041 C4010042 C4010043	C	0	0C95 0012 0C9E 0012 0CA7 0012	SM2	EBC EBC EBC	• ENTER 2	D 01-CD 00. 2 DIGIT DE. Sw BIT FUR.		C4010109 C4010110 C4010111
	0C2A 00 44800130 0C2C 01 D4000D35		I SILSY L SWB2	CK ILSW Sture	SRC	C4010044 C4010045 C4010046	O		OCBO GOOF OCB8 O FFFF	*	EBC DC	· CONSOLE /FFFF			C4010112 C4010113
	0C2E 01 C4000D3A 0C3U 01 D4000D36	* LD L	L SOOOF L SWB3	SET CH = F STORE		C401004 <b>7</b> C401004 <b>8</b>		0	0CB9 0012 0CC2 0012	SM3	EBC		2 DIGIT DE.		C4010114 C4010115 C4010116
		* *				C4010049 C4010050 C4010051	G		OCCB 0012 OCD4 0012 OCDD 0006		EBC EBC EBC	OR DESIKE	TRPT LVL F. ED OUTPUT .		C4010117 C4010118 C4010119
	0C32 00 4480012E 0C34 00 4480012C 0C36 1 UCB9	DC BSI I	I SSUER I KEY SM3	MSG ADRS	SRC	C4010052 C4010053 C4010054	û	1	0CE0 0 FFFF 0CE1 0012	≄ SM4	DC EBC	/FFFF	D 01-CD 00.		C4010120 C4010121 C4010122
	OC37 0 8120 OC38 00 4480012F	DC ◆	/8120 I SIL	KYBD-FORM 1-2 DIGITS  CK IL	S	C4010055 C4010056 C4010057	:	^	OCEA 0012 OCF3 0012	<b>3</b> 1	EBC EBC	• ENTER 2 •CIMAL ILS	2 DIGIT DE. Sw BIT FOR.		C4010123 C4010124
•	OC3A 01 D4000D37	STO L	L SW84	STORE		C401005 <b>8</b> C401005 <b>9</b>	:	5	0CFC 0012 0005 0 FFFF	•	OC EBC	/FFFF	OUTPUT DY.		C4010125 C4010126 C4010127
	0C3C 00 4480012E 0C3E 00 4480012C 0C40 1 0CE1	BSI I DC	I SSUER I KEY SM4	SET ERROR RETURN Enter Otpd DV ILSW MSG ADRS		C4010050 C4010061 C4010062	:	-	0D06 0012 0D0F 0012 0D18 0012	SM5	EBC EBC EBC	. ENTER 1	D 01-CD 00. 1 DIGIT DE. FOR DESIR.		C4010128 C4010129 C4010130
	0C41 0 8120 0C42 00 44800130	DC *	/8120 I SILSW	CK ILSH		C4010063 C4010064 C4010065	ı		0021 0012 002A 0011		EBC EBC	•ED OPTPT   •3 OR 1816	DV-1F 105.		C4010131 C4010132
٢	0C44 01 D4000D38		L SwB5	STORE		C4010065 C4010066 C4010067	•	1.	0D33 0 FFFF 0D34 0 0000 0D35 0 0000	SWB1 SWB2		/FFFF 0 0			C4010133 C4010134 C4010135

	00000	0		T de disease
IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CP10-01AG MON SKELETUNS SKELETON 1D-08C4-01-0	PART NC. 2242266 Page 2	G :	IBM MAINTINANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	end voorgebase end
0037 <b>0</b> 0000		5	0	cr constant
0D36 0 0000 SWB5 DC 0 0D39 0 0000 SWB6 DC 0	C4010137 C4010138 C4010139	c	<b>,</b>	•
0D3A 0 000F S000F DC /000F 0D3B 00 4C000138 END1 BSC L END0 0U3E 0D3B END END1	C4010140 C4010141 C401014 C4010151	ē	EINRY 013E 0C17	
	C-101014 C-1010151	c	CKYN G12D OC17  ENDO 0138 OC17, OD38  END1 0D38 OD3D	÷
		و ا	ERR 0439 0C17  (C) KEY 012C 0C17,0C1C,0C26,0C34,0C3E,0C48  KEYIN 01DF 0C17,0C4C	~
		g	LGROP 043F 0C17  LWC 043E 0C17  MTRM 043B 0C17	
		c	PDKYB 0136 0C17, 0C50 PHKYB 0137 0C17 SCH 0131 0C17, 6C54	•
		0	SECSJ 0133 0C17, 0C68   C SER 0132 0C17	•
·		0	SILSW 0150 0C17,0C2A,0C42 C SKINO 0135 GC17	
	•	0	SKIN1 0134 0C17 SK11 0C17 0C6+ C SK12 0C18 0C62	
		0	SK13 UC19 0C66 SK14 OC1A C SK1 OC6D OC4E	,
		0.	SK2 0C56 0C6F SM1 0C70 0C1E O SM2 0C95 0C28	í .
		1	SM3 0CB9 0C36 SM4 0CE1 0C40 SM5 0D06 0C4A SRTRY 0441	ŕ
		0	SSUER 012E 0C17,0C1A,0C24,0C32,0C3C,0C46 STBF 0440 0C17	*
		_	SWB1 GD34 OC22,0C58,GC6A ) SWB2 OD35 OC2C SWB3 OD36 OC30	,
		_	SWB4 GD37 OC3A SWB5 OD38 OC44 SWB6 OD39 OC56	
			\$000F	s
			TRFX 043C 0C17 WCC 043A 0C17	<i>t</i>
		-	<b>3</b>	: :
		-	<b>3</b>	\$ \$
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		:	<b>1</b>	·
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DATE 04NOV66 EC NO. 415233	PROG ID 08C4-0 Page 2	3   9	CATE 04N0V66 PROG ID 08C4-0 PAGE 2A	
	-	o :	PAGE 2A	
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IBM MAINTENANCE DI	AGNOSTIC PROGRAM FOR THE 1800	SYSTEM	PART NO. 2242266	o ' o			3
DPIG-UIAG MUN SKELI	ETONS SKELETON ID-U8C4-01-1		PAGE 3	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266	,
				<b>3 3</b>	CPIO-DIAG MON SKELETONS SKELETON ID-08C4-01-1	PAGE 3A	3
0000 012C	ORG #+3095 KEY EQU 300		011001	: :	0C4E U1 4C280C60 BSC   QUT.A7 HDAGU TO TOO		)
012D 012E 012F	CKYN EQU KEY+1 SSUER EQU CKYN+1	C4	011002 011003 011004		0C50 0 C100 LD 1 0 GET ENTRY	C4011069 C4011070	. <b>c</b> .
0130 0131	SILSW EQU SIL+1 SCH EQU SILSW+1	C4 C4	011005 011006	\$ 5	0C53 0 F200 EUR 2 0 CK FOR DUPLICATION OC54 01 4C180C5C BSC L SKER2,+- BRANCH IF ERROR	C4011071 C4011072 C4011073	,
0132 0133 0134	SER EQU SCH+1 SECSU EQU SER+1	C4	011007 011008 011009	= 0	0C57 0 70F5 HDX 1 1 INCR IX 1	C4011074 C4011075	,
0135 0136	SKINO EQU SKINI+1 PCKYB EQU SKINO+1	C4 C4	01101 <b>0</b> 0110 <b>11</b>	<b>₽</b> 0	0C58 0 7201 SK3 MDX 2 1 INCR IX 2 0C59 01 7401GC5F MDX L TEMP,1 *	C4011076 C4011077 C4011078	,
0137 0138 013A	PHKYB EQU PDKYB+1 ENDO EQU PHKYB+1 S2 EQU ENDO+2	C4	011012 011013 011014	<b>3</b> 5	0C5C UO 448C0132 SKERZ RSI I SER	C4011079 C4011080	)
013E 01DF 0437	BINRY EQU S2+4 KEYIN EQU BINRY+161	C4:	011015 011016 011017	<b>1</b> 0	0C5E 0 0000 **	SRC C4011081 C4011062 C4011083	•
0438 0439	ZERO EQU KEYIN+600 BGNR EQU ZERO+1 ERR EQU BGNR+1	C40 C40	011018 011019		0C60 01 66800C18 DUT LDX 12 SK12 SET IXING 0C62 01 6580UC17 LDX 11 SK11	C4011084 C4011085	)
	MCC EQU ERR+1 MTRM EQU WCC+1	C40	01102 <b>0</b> 011021 011022		0C66 00 44800133 ***	C4011086 C4011087 C4011088	)
0430 043E	TRFX EQU MTRM+1 TERM EQU TRFX+1 LWC EQU TERM+1	C40 C40	)11023 )11024	t C	0C68 1 0C03 DC SHB1 0C69 00 4C00013A BSC L S2 EXIT	SRC C4011089 C4011090	,
043F 0440	LGROP EQU LWC+1 STBF EQU LGROP+1	C40	11025 11026 11027	<b>t</b> 0	OC6B 00 44800132 SKEP BSI 1 SER GO PRINT ERROR OC6D 1 OC6E DC SE000 ADRS OF MSG	C4011091 SRC C4011092 C4011093	
0C17 0 0001 0C18 0 0001	SRTRY EQU STBF+1 SKI1 DC /0001 PID SKI2 DC /0001 CD NI	C40 C40	11028 11029	<b>:</b> 0	0C6E 0012 SEOGO EBC -E010 PID 01-CD 00-	C4011094 C4011095	,
0019 0 0000	SKI3 DC /0000 NO EN SKI4 BSI I SSUER SET E	NTRIES C40	11030 11031 11032	:, 0	0C77 0012 EBC - IMPROPER NUMBER - 0C80 0007 EBC - OF MOS-	C4011096 C4011097 C4011098	7
0C1C 00 C400043D 0C1F 00 D500013D	LDX 1 30 LD L TERM CLEAR SKO STO L1 BINRY-1	C40 R BINRY AREA C40	11033 11034	.   -	0C85 0012 SE001 EBC .E006 PID 01-CD 01-	C4011099 C4011100 C4011101	) <b>s</b> _
0C21 01 D5000CD2 0C23 0 71FF 0C24 0 70FA	STO L1 SWB1-1 MDX 1 -1	C40	1 1035 1 1036 1 1037	•   -	OC97 OOOF EBC . 2 OR MORE ENTRIE. OC9F O FFFF DC /FFFF	C40111G2 C4011103	7
0C25 0 1010 0C26 0 D0F2	210 2K13	C40 CT C40	11038 11039	:   :	0CAO 0012 SM2 EdC001 PID 01-CD 00-	C4011104 C4011105 C4011106	)
0C27 00 4480012C 0C29 1 0CA0 0C2A 0 8120	BSI I KEY LNTER DC SM2	SINTR LVL SRC C40:	l 1040 l 1041 l 1042	: :	OCB2 GO12 EBC • ENTER A 2 DIGIT . OCBB GO12 EBC • DECIMAL NUMBER FOR•	C4011107 C4011108	2
0C2B 00 C400013D 0C2D 0 D0EB	LD L BINRY-1 GET W STO SKI3 SET	D CT C401	11043 11044	: :	OCC4 0012 EBC -VEL TO BE RUN, 1-1. OCCD GOO7 EBC -2 LINES.	C4011109 C4011110 C4011111	,
0C2E 01 66000CD3 0C30 00 6500013E 0C32 00 C5000000	LDX L2 SWB1 SET I LDX L1 BINRY	XING C401	1045 1046 1047	• •	0CD2 0 000C S00CD DC /000C	C4011112 C4011113	7
0C34 00 4480012F	BSI I SIL CK IL	WD C401	1048 1049		OCD3 O 0000 S#B1 DC O ENTRY STORAGE OCD4 OO1D BSS 29	C4011114 C4011115 C4011116	<b>)</b>
0C36 0 1808 0C37 0 D200 0C38 0 C101	SRA 8 STO 2 0 SAVE	C401 C401	1051 1052	• 6	OCF1 UO 4COGG138 END1 BSC L ENDO OCF4 OCF1 END END1	C4011117 C401111 C4011127	<b>)</b>
0C39 00 D400013E 0C38 0 7201	STO L BINRY SET AS	C401 S_1ST C401		<b>:</b>   0			ז
0C3C 0 7101 S 0C3D 00 74FF013D 0C3F 0 70F2	MDX L BINRY-1,-1 DECR	IX 1 C401 HD CT C401	105 <b>6</b> 105 <b>7</b>	1 7			<b>3</b>
0C40 01 C4000C19 S 0C42 01 B4000CD2	CMP L SOCO CK FOR	C401 C401 C401	1058 1059	<b>1</b> 0			
0C44 0 7026 0C45 0 1000	MDX SKER ERROR NOP	C401 C401	1061 1062	1 0			<b>3</b>
0C46 01 66000CD3 0C48 0 6A16	LDX L2 SWB1 SET IX	CA01 CA01 CA01	1064	<b>1</b> 0			<b>1</b> :
0C49 01 74010C5F 0C48 01 65800C5F SI 0C4D 0 C200 SI	MDX L TEMP,1	C401:	106 <b>6</b> 106 <b>7</b>	• 0			3 ;
	KZ LD 20 GET EN	C401	1068				3
DATE C4NOV66 EC NO. 415233		PRO PAG	OG ID 03C4-0 SE 3	: 0	DATE 04NDV66	DECE ID COST O	1
	•			: 0	EC ND. 415233	PROG ID 08C4-0 PAGE 3A.	
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266	`υ	o '									, J
CPIO-DIAG MON SKELETONS SKELETON ID-08C4-01-1	PACE 4	0	0	IBM MAINTENANCE D					PART PAGE	NO. 224226		)
*****		0	3	CPIU-DIAG MON SKE	LETONS SKE	LETON ID-08C4-	-01-2					· 1
CROSS REFERENCE LISTING ' SYMBOL VALUE REFERENCES		o	O	0000	URG				C401200			,
EGNR 0438 0C17 BINRY 013E 0C17, 0C1F, 0C2B, 0C30, 0C39, 0C3D		0	Ō.	012C 012D 012E	KEY EUU CKYN EQU SSUER EQU	KEY+1			C401200 C401200	2		)
CKYN 012D 0C17 ENDO 0138 0C17.0CF1 END1 0CF1 0CF3		_		012F 0130	SILSH EQU	SSUER+1 SIL+1			C401200 C401200 C401200	5		)
ERR 0439 0C17 KEY 012C 0C17, 0C27			0	0131 0132 0133	SCH EQU SEK EQU SECSU EQU	SCH+1			C401200 C401200	7 8		)
LGROP 043F 0C17 LWC 043E 0C17		C	O	0134 0135 0136	SKIN1 EQU SKIN0 EYU	SECSU+1 SKIN1+1			C401200 C401201 C401201	0		)
MTRM 043B 0C17 OUT 0C60 0C4E PDKYB 0136 0C17		0	õ	0137 0138	PDKYB EQU PHKYB EQU ENDO EQU	SKINO+1 PDKYB+1 PHKYB+1			C401201 C401201 C401201	2 3		)
PHKYB 0137 0C17 SCH 0131 0C17		0	o	013A 013E 01DF	S2 EQU BINRY EQU KEYIN EQU	ENDO+2 S2+4			C401201 C401201	5 6		2
SECSU 0133 0C17,0C66 SER 0132 0C17,0C5C,0C6B SE000 0C6E 0C6D		c	o	0437 0438 0439	ZERO EQU BGNR EQU	BINRY+161 KEYIN+600 ZERO+1			C401201 C401201 C401201	8		-
SE001 0C85 0C5E SIL 012F 0C17,0C34 SILSW 0130 0C17		0	n	043A 043B	ERR EQU WCC EQU MTRM EQU	BGNR+1 ERR+1 WCC+1			C401202 C401202	0 1		,
SKER 0C68 0C44 SKER2 0C5C 0C54			_	043C 043D 043E	TRFX EQU TERM EQU LHC EQU	MTRM+1 TRFX+1			C401202 C401202 C401202	3 <b>6</b>		)
SKINO 0135 0C17 SKINI 0134 0C17 SKII 0C17 0C62			_	043F 0440 0441	LGROP EQU STBF EQU	TERM+1 LWC+1 LGROP+1			C4012029 C4012020 C4012020	5		3
SKI2 OC18 OC60 SKI3 OC19 OC26, OC2D, OC40, OC64				0C17 U 00U1 0C18 O 0UU2	SRTRY EQU SKI1 DC SKI2 DC	STBF+1 /0001 /0002	PIO CD NO		C4012024 C4012024	3 <b>3</b>		3
SK15 0C3C SK16 0C32 0C3F		~ <b>s</b>	Ċ	0C19 0 0000 0C1A 00 C4000440 0C1C 01 D40G0CEC	SKI3 DC SKI4 LD	/0000 L STBF	NO ENTRIES GET DISPL		C4012031 C4012031 C4012032	l		7,
SK17 0C40 SK0 0C1F 0C24 SK1 0C4B 0C5B		3   3		OC1E OU 4480U12E OC2O O1 C40OOCEC	12 B 12 B 0 J	I SSUER L TEMP	SAVE SET ERROR RE GET DISPL	TURN SR	C4012033 C C4012034 C4012035	•		1
SK2 0C4D 0C57 SK3 0C58 0C51		z   f	-	0C22 70 D4000440 0C24 01 84000CED 0C26 01 84000CEE	A	L STBF L KOOO3 L CNST	SET ADD 3 ADD ADRS		C4012036 C4012037	•		1
SM2		=   -	-	0C26 01 D4000CB2 0C2A 01 D4000C2D 0C2C 00 6700000	S T O S T O	L SMO-1 L SNO+1	SET SET		C4012036 C4012039 C4012040	)		•
STBF 0440 0C17 SWB1 0C03 0C21,0C2E,0C46,0C68 S000D 0CD2 0C42		=   -		0C2E 00 C400043D 0C30 00 D7000000	SN1 LD STO	L3 0 L TERM L3 0	SET ENTRIES	TO TERM	C4012041 C4012042 C4012043	:		1
S2 013A 0C17,0C69 TEMP 0C5F 0C48,0C49,0C4B,0C59		-	_	0C32 0 7301 0C33 01 6F000CF0 0C35 01 C40G0CF1	STX	3 1 L3 SN2 L ADRS			C4012044 C4012045	• •		7
TERM 043D 0C17,0C1D TRFX 043C 0C17 NCC 043A 0C17		-   -		0C37 01 F4000CF0 0C39 01 4C200C2E 0C38 01 C4000CEF	EOR B SC	L SN2 L SN1.Z			C4012046 C4012047 C4012048			1
ZERO 0437 OC17				OC3D O DODA OC3E O 1010	LD Sto Sla	L K0002 SKI2 16	GET 2 SET CD NO		C4U12O49 C4O12O50			1
			•	0C3F 01 D4000D5A 0C41 01 D4000D5B 0C43 0 D0D5	STO	L WDCT L WDCT1 SKI3	CLEAR COUNTS	_	C4012051 C4012052 C4012053			1
		:   ^		0C44 0J 4480012C 0C46 1 0DA7 0C47 0 8030	851 OC	I KEY SM1	CLEAR ENTRY C		C4012054 C4012055 C4012056			<b>1</b> i
		1 :		0C48 00 C40001DE 0C4A U B036	DC LD CMP	/8030 L KEYIN-1 S0560	GET WD CT COMP AGAINST	560	C4012057 C4012058			1
		<b>8</b> 0	i	0C4B 0 7032 0C4C 0 1000 0C4D 00 650001DF	MDX Nop	SKER1 O	ERRGR		C4012059 C4012060 C4012061			; ;
		<b>1</b> 0		0C4F 0 C102 0C50 0 4820	SKA1 LD BSC	1 2	CK ENTRIES FO *CORRECT FORM		C4012062 C4012063 C4012054			-
		<b>t</b> 5		0C51 0 7010 0C52 0 C105 0C53 0 4820	MDX LD BSC	SKA2 1 5 2			C4012065 C4012066			<b>1</b>
DATE 04NOV66	PROG ID 08C4-0	: 0		0C54 0 700D	MDX	SKA2			C4012067 C4012068			3 (
EC NO. 415233	PAGE 4			DATE 04NOV66 EC NO. 415233					PROG II P <b>age</b>	08C4-0		3 ;
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0 0 ) IBM MAINTENANCE DIAGNUSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266 IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PAGE PART NO. 2242266 0 0 PAGE CPIO-DIAG MON SKELETONS SKELETON ID-08C4-01-2 ) CPIO-DIAG MON SKELETONS SKELETUN ID-08C4-01-2 C ย้ ) 0C55 0 C107 1 7 C4012069 0056 0 4820 C 0C85 0 D03C STO BSC ENTI C4012137 C4012070 ) 0C57 0 700A OCB6 00 66000000 SM LDX L2 0 NDX SKA2 C4012138 C4012671 0C58 0 C10A OC86 0 7202 MDX 1 10 22 LD C4012139 C4012072 0059 0 4820 ũ Û 850 Z C4012140 C4012073 3 OC5A 0 7007 OC89 O C200 SMIA LD 2 0 MDX SKA2 GET A DOFF C4012141 C4012074 0C5B 0 C10D OCBA OU F40004+2 EOR L SRTRY+1 LD 1 13 CK FOR AT PID C4012142 C4012075 0 Đ OCBC 01 4C130CE2 OC5C 01 4C180C64 BSC L SKA3,+-BSC L SM3A,+-GO ADJ IX 1 C4012143 C4012076 1 OCBE 0 C100 0C5E 00 F400043D EOR L TERM LD 10 GET DDEF C4012144 (4012077 0060 01 40180066 OCBF 00 F400043D EOR L TERM BSC L SKA7.+-C4012145 C4012078 0C62 01 4C000D43 OCC1 01 4C180CE4 SKA2 BSC L SKER2 8 SC L SM4A,+-EXIT IF ZERO C4U12146 C4012079 3 0C64 0 710E SKA 3 OCC3 0 C100 MDX 1 14 I D 1 0 C4012147 C4012080 0065 0 7069 0CC4 0 F200 EOR MDX SKAL 2 0 COMPARE C4012148 C4012081 OCC5 01 4C160D49 C C BSC L SKER4,+-BR IF ERROR C4012149 C4012082 ) 0C66 00 650001DF 0007 0 7202 SKA7 LDX L1 KEYIN MDX 22 SET IXING INCR IX C4012083 C4012150 0C68 01 660UODEA CCC8 01 74016CF2 LOX L2 SWB1 MOX L ENT1,1 INCR TOTAL C4012151 C4012084 OCCA O1 C40UOCF2 0C6A 0 6305 SK6 LDX 35 LD L ENT1 CK FOR DONE C4012085 C+012152 3 0C68 0 C101 OCCC 01 F4000CF5 SK5 LD GET ENTRY EOR K0040 C4012086 C4012153 0060 00 F400043D OCCE 01 4C180CD1 EOR L TERM B SC SMZA,+-BRANCH IF ALL C4012087 C4012154 OC6E 01 4C180C82 Ç OCDU O 70E8 B SC L BUILD .+-BRANCH IF TERM MDX SMIA LOOP C4012088 C4012155 3 OCD1 0 7102 SM2A HDX 00.70 0 0100 LD 1 2 GET ENTRY INCR 1 1 C4012089 C4012153 0C71 01 4C180CFD CCD2 0 CO21 BSC L DEC1.+-BRANCH IF SPACE LD ENT3 GET TOTAL C4012090 C4012157 OCD3 0 6022 0073 01 4F800D4R 8 SC 13 CNVRT-1 K0001 ADD 1 GO CONVERT SRC C4012158 C4012091 ) 0C75 01 4F800D50 OCD4 O DOLF STO ENT3 BSC 13 CK-1 SAVE GO CK DATA SRC C4012092 C4012159 0C77 0 D200 SKIA STO OCD5 01 74010CF3 MDX L ENTZ.1 2 0 INCR CK TOTAL SAVE DATA C4012093 C4012160 OCD7 01 C4000CF3 L ENT2 0078 0 7201 MDX LD GET CK TOTAL INCR IX 2 C4012094 C-012161 7 OCD9 G F010 0C79 0 73FF MDX EUR K0039 3 -1 CK FOR DONE DECR IX 3 C4012162 C4012095 OCDA 01 4C180CF4 BSC L SM4A.+-0C7A 0 70F0 HDX SK5 BRANCH IF DONE LOGP C4012096 C4012163 OCDC 0 C100 OC78 01 74010D5A MDX L MDCT,1 LD 1 0 GET ENTRY INCR WD CT C4012164 C4012097 1 OCDD 00 F4000442 0C70 0 70EC EOR L SRTRY+1 MDX SK6 CK FOR AT PID LOOP C4012165 C4012098 OCDF 01 4C180CEA OC7E 00 44800132 SKER1 BSI I SER PRINT ERROR BSC L SM5A,+-BRANCH IF AT PID C4012166 C4012099 0 OCE1 0 70D1 0C80 1 0D5F MDX SMO SKEUO LOOP C4012167 C4012100 1, OC81 0 0230 S0560 DC 560 CONSTANT C4012168 C4012101 OCE2 0 7203 OC82 01 66000DEA SM3A MDX 23 BUILD LDX L2 SW61 SET IX TO DDEF SET IXING C4012102 C4012169 OCE3 0 7005 0C84 01 65000DEA SK7 LDX L1 SW61 MDX SHIA C4012103 C4012170 1 0C86 0 C200 LD 2 0 C4012171 C4012104 OCE4 0 1010 0C87 0 F201 SM4A SLA 16 EOR CLEAR ALL NECESSARY 2 1 BUILD DOEF C4012172 C4012105 OCE5 0 DOOC 0C88 0 F202 EOR 2 2 STO ENT1 C4012173 C4012106 1 OCE6 O DOOC 0C89 0 D100 STO ENT2 STO 1 0 C4012107 C4012174 OCE7 O DOOC OC8A 01 74010D5B MDX L WDCT1.1 INCR NO CT STO ENT3 C4012175 C4012108 OC8C 0 C203 LD 23 BUILD AC MOD C4012176 C4012109 OCE8 00 4C00013A OC8D 0 1008 11 B SC S2 SLA EXIT C4012177 C4012110 OC8E 0 F204 EOR 2 4 C4012111 C4012178 OCEA 0 7103 OC8F 0 D101 SM5A MDX STO ADJ IX 1 1 1 C4012112 C4012179 OCEB 0 70C7 1 0C90 01 74010D58 HDX L WOCTI,1 MDX SMO INCR WD CT LOOP C4012180 C4012113 OCEC 0 0000 TEMP DC CONSTANTS OC92 0 7102 MDX 12 IXCR IX 1 C4012181 C4012114 0093 0 7205 OCED 0 0003 KOUO3 DC HDX 25 INCR IX 2 C4012182 C4012115 UCEE 0 0442 0094 01 74FF0D5A CNST DC SRTRY+1 MDX L WDCT.-1 CK FOR DONE C4012116 C4012183 OCEF 0 0002 0C96 U 7061 KOM SK9 K0002 DC BRANCH C4012184 C4012117 OCFO 0 0000 0097 0 6900 STX SN2 1 SKD+1 SAVE IXING C4012185 C4012118 OCF1 0 0583 ADRS DC SRTRY+322 OC98 0 6AOD STX 2 SKE+1 C4012186 C4012119 0C99 0 6B0E 3 SKF+1 STX C4012120 C4012187 OCF2 0 CO00 ENT1 DC CC9A 01 65800C17 CONSTANTS LDX II SKII SET IXING C4012121 C4012188 OCF3 0 0000 ENT2 DC OC9C 01 66800C18 LDX 12 SK12 C4012189 C4012122 OCF4 0 0000 ENT3 DC 069E 01 67800D58 LDX 13 WDCT1 C4012190 C4012123 OCF5 0 0028 KUU40 DC OCAO 00 44800133 40 BSI I SECSU SET CARD C4012191 C4U12124 OCF6 0 0001 K0001 DC OCAZ 1 ODEA DC ShBl C4012192 C4012125 UCA3 00 65000000 SKD LDX L1 0 OCF7 0 0027 K0039 DC 39 RESTORE IXING C4012193 C4012126 OCF8 0 C062 OCA5 00 66000000 SKE SK9 LD WDCT1 GET CD WD CT LOX L2 0 C4012127 C4012194 OCA7 00 67000000 SKF OCF9 0 B063 CMP SOOOC COMPARE WITH 12 LDX L3 0 C4012195 C4012128 OCFA U 7048 OCA9 0 1010 KCM SKER2 ERROR SLA 16 C4012196 C4012129 STO L WOCTL OCER 0 708A OCAA 01 D4000D58 SKB LOOP CLEAR WE CT C4012197 C4012130 OCFC 0 709A OCAC 01 74010C18 MDX SKA GD SET CD MDX L Sk12.1 INCR CD NO C4012198 C4012131 OCFD 0 7101 DEC1 MDX OCAE 01 74000D5A MDX L WDCT.C IS TOTAL WD CT = 0 INCR IX 1 C4012199 C4012132 OCFE 01 4C000C6B BSC L SK5 OCBO 0 7003 MDX LOOP SK7 C4012200 LOOP C4012133 KYHEX LD 6000 0 C100 OCB1 00 65000000 10 GET WD 1 LDX L1 0 SET IXING C4012201 C4012134 0001 00 C40001DF STO L KEYIN SMO 0083 0 6903 SAVE STX 1 SM+1 C4012202 C4012135 0D03 0 C101 1 1 GET WD 2 OCB4 O CO3F LD ENT3 SET NO TO CK C4012203 C4012136 0D04 00 D40001E0 STO L KEYIN+1 SAVE C4012204 DATE EC NU. 0 04N0V66 PROG ID 08C4-0 04NGV66 415233 PROG ID 08C4-0 PAGE EC NO. 415233 PAGE Ü  $\mathbf{0}$ 

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IBM MAINTENANCE DIAGNOSTIC PRO	GRAM FOR THE 1800 SYSTEM	PART NO. 2242266	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYS	TEM PART NO. 2242266	•
		PAGE 6	0 0		PAGE 6A	)
CPIO-DIAG MCN SKELETUNS SKEI	E IUN ID-0864-01-2		0 0	CPIO-DIAG MON SKELETONS SKELETON ID-08C4-01-2		•
	L TERM GET TERM	C4012205	0 0	ODTE 0012 EBC . AREA CODE WAS T		)
	L KEYIN+2 SET I PHKYB CONVERT TO HEX SR(	C4012206 C C4012207 C4012208	0 0	0D87 0007 EBC .O LARGE. 0D8B 0 FFFF DC /FFFF	C40122 <b>74</b> C40122 <b>75</b> C40122 <b>76</b>	1
0000 0 0437 DC 000E 0 7103 MDX		C4012209 C4012210		ODBC 0012 SKE03 EBC .E006 P1D 01-CD 0 OD95 0012 EBC . 2 CR MORE ENTR*	2。	-
0011 0 C100 KYHX1 LD	L SKI6 1 O GET WD L KEYIN SAVE	C4012211 C4012212 C4012213	o o	OD9E OOOF EBC .S ARE IDENTICAL. ODA6 O FFFF DC /FFFF	C40122 <b>79</b> C4012280 C401228 <b>1</b>	)
0D14 00 C400043D LD 0D16 00 D40001E0 STO	L TERM GET TERM L KEYIN+1 SET	C4012214 C4012215	6 o	ODA7 0012 SM1 EBC .C014 PID 01-CD 0 ODBO 0012 EBC . ENTER DEVICE IN	2• C401228 <b>2</b>	3
001A 0 0001 DC	I PHKYB CONVERT TO HEX SRC	C C4012216 C401221 <b>7</b>	o   c	ODB9 0012 EBC .0 IN THE FOLLOWIN ODC2 0012 EBC . FORMAT 1-40 DEV	I. C4012285	<b>)</b>
0D18 0 0437 DC 0D1C 0 7102 MDX 0D1D 01 4C000C75 BSC	ZERO 1 2 INCR IX 1 L SKI6	C4012218 C4012219 C4C12220	0 0	ODCB         O012         EBC         .CES-SPACE BETWEEN           ODD4         O012         EBC         .ENTRIES, IL ILSW           ODDD         O012         EBC         .H AC MOD,\$DD DD H	C• C401228 <b>7</b>	)
0D1F 0 C100 KYDC2 LD 0D20 00 D40001DF STD	1 O GET WD 1 L KEYIN SAVE	C4012221 C4012222		ODE6 0005 EBC .DD HH. ODE9 O FFFF DC /FFFF	C4012289 C4012290	J
	1 1 GET WD 2 L KEYIN+1 SAVE L TERM GET TERM	C4012223 C4012224 C4012225	6   °	* ODEA O 0000 SWB1 DC O ENTRY S ODEB 0154 BSS 340	C4012291 TORAGE C40122'92 C4012293	)
0D27 00 D40001E1 STD 0D29 00 44800136 BSI	L KEYIN+2 SET I PDKYB CONVERT TO DEC SRO	C4012226 C4012227	0 0	0F3F 00 4C000138 END1 BSC L END0 0F42 0F3F END END1	C4012294 C401229 C4012304	3 📜
0D2B 0 0002 DC 0D2C 0 0437 DC 0D2C 0 7103 MDX	2 ZERO 1 3 INCR IX 1	C4012228 C4012229 C4012230	0 0			<b>7</b>
OD2E 01 4C000C75 BSC OD30 00 C400013E LSFF LD		C4012231 C4012232	0 0			<b>)</b> ,
0032 0 B02B CMP 0033 0 7012 MDX 0034 0 1000 NOP	SOOFF CMPR WITH FF SKER3 ERRGR O	C4012233 C4012234				,
0035 01 4C000C77 BSC	L SKIA I SCH CK CH NO SRO	C4012235 C4012236 C C4012237	Cs			<b>7</b> 3
0039 01 4C000C77 BSC 6D3B 00 44800130 LSW BSI	L SKIA I SILSW CK ILSW BIT SRO	C4012238 C4012239	-   3			)
003F 00 4480012F IL 85I	L SKIA I SIL CK INT LVL SRC L SKIA	C4012240 C C4012241 C4012242	5 3	•		7
0D43 00 44800132 SKER2 BSI 0D45 1 0D5F DC	I SER PRINT ERROR SRC SKEOO	C4012243 C4012244	-			1
OD46 00 44800132 SKER3 BSI OO48 1 OD75 DC OD49 00 44800132 SKER4 BSI	SKE02	C4012246				,
0048 1 008C OC 004C 1 0000 CNVRT DC	I SER IDENTICAL DDEFS SRC SKE03 . KYHEX CONVERT TABLE	C4012247 C4012248 C4012249	3			)
004D 1 0D1F DC 0D4E 1 0D11 DC	KYDC2 KYHX1	C4012250 C4012251	^ <b>3</b>			7
004F 1 001F DC 0050 1 001F DC 0051 1 0056 CK DC	KYDC2 KYDC2 AC CK TBL	C4012252 C401225 <b>3</b> C4012254	- :			)
0D52 1 0D30 DC 0D53 1 0D37 DC	L SFF CH	C4012255 C4012256	5 D			)
0D54 1 0D3B DC 0D55 1 0D3F DC 0D56 00 C400013E AC LD	LSW IL L Binry Get entry	C401225 <b>7</b> C401225 <b>8</b> C4012259				•
0D58 01 4C000C77 BSC 0D5A 0 0000 WDCT DC	L SKIA O TOTAL WO CT	C4012259 C4012260 C4012261				J
0058 0 0000 WDCT1 DC 005C 0 0005 S0005 DC	O CARD WD CT 5 CONSTANTS	C4012262 C4012263	2   ^			3
0D5D 0 000C S00 0C DC 0D5E 0 001F S00FF DC	/000C 31	C4012264 C4012265 C4012266	<b>:</b>			:
0D5F 0012 SKECO EBC 0D68 0012 EBC	.EO10 PID 01-CD 02. . IMPROPER NUMBER .	C401226 <b>7</b> C4012268	• 0			1
0D71 0006 EBC 0D74 0 FFFF DC	.OF WOS. /FF <del>F</del>	C4012269 C4012270 C4012271				•
0D75 0012 SKE02 EBC	.EOOF P1D 01-CD 02.	C4012272	-   '			i i
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	PART NO. 2242266 PAGE 7	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	
CP10-DIAG MUN SKELETUNS SKELETUN 1D-08C4-01-2			CPIO-DIAG MON SKELETONS SKELETON ID-08C4-01-2	PAGE 7Å
CROSS REFERENCE LISTING		o o		
SYMBOL VALUE REFERENCES		0 0	SK5	
AC 0D56 0D51 ADRS 0CF1 0C35 BGNR 0438 0C17		0 0	SK7 0C84 0CB0 SK8 0CA2	
BGNR 0438 0C17 BINRY 013E 0C17,0D30,0D56 BUILD 0C82 0C6E			SK9 0CF8 0C96 SM 0C36 0CB3 SM0 0CB3 0C28,0CE1,0CE8	
CH 0D37 0D53 CK 0D51 0C75		O O	SMO OCB3 OC28, OCE1, OCEB SM1 ODA7 OC46 SM1A OCB9 OCD0, OCE3	
CKYN 012D 0C17 CNST 0CEE 0C26		() <b>O</b>	SM2A OCD1 OCCE SM3A OCE2 OCBC	
CNVRT 0D4C 0C73  DEC1 0CFD 0C71  ENDO 0138 0C17.0F3F		0 0	SM4A OCE4 OCCI+OCDA SM5A OCEA OCDF	
END1 0F3F 0F41 ENT1 0CF2 0CB5,0CCA,0CE5		0 0	SNU 0C2C 0C2A SN1 0C2E 0C39 SN2 0CF0 0C33-0C37	
ENT2 OCF3 OCD5.OCD7.OCE6 ENT3 OCF4 OCD2.OCD4.OCE7			SN2	
ERR 0439 0C17 IL 0D3F 0D55		0   0	STBF 0440 0C17, 0C1A, 0C22 SW81 0DEA 0C68, 0C82, 0C82	
KEY 012C 0C17,0C44 KEYIN 01DF 0C17,0C48,0C4D,0C66,0D01,0E04,0D08,0D12,0D16,0D20	•	0 0	S000C 005D 0CF9	
0D23,0D27 KYDC2		0 0	\$0005	
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K0002 OCEF OC3B K0003 OCED OC24		0 0	TRFX 043C 0C17 WCC 043A 0C17	5
K0039 OCF7 OCD9 K0040 OCF5 OCCC LGRCP 043F OC17		0.0	WDCT	
LGRCP 043F 0C17 LSFF 0D30 0D52 LSW 0D3B 0D54		0 0	ZERO 0437 0C17, 0D0D, 0016, 0D2C	
LWC 043E 0C17 MTRM 043B 0C17		0 0		
PDKYB 0136 0C17,0D29 PHKYB 0137 0C17,0D0A,0D18		0 0		
SCH 0131 0C17,0D37 SECSU 0133 0C17,0CA0 SER 0132 0C17,0C7E,0D43,0D46,0D49		0 9		
SER 0132 0C17, UC7E, UD43, OD46, OD49 SIL 012F UC17, OD3F SILSW 0130 0C17, OD3B		0   6		
SKA 0C97 0CFC SKA1 0C4F 0C65				
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IBM MAINTENANCE DIAGNO	STIC PROGR	AM FOR THE 1800 SYSTE	M PART NO. 2242266	O	' C	IRM MAINT	ENANCE C	DIAGNOSTIC P	UDC D 4 H	500 Tus	••••				
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	ORG Y EQU	*+3095 300	C4013001 C4013002	o	1 0	CROSS REF	ERENCE L	ISTING							
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0136 PDK	NO EQU LYB EQU LYB EQU	SKIN1+1 SKIN0+1 PDKYB+1	C4013011 C4013012		O	KEYIN O LGROP O	12C 1DF 43F	0C17 0C17 0C17							
0138 END 013A S2	EQU EQU IRY EQU	PHKYB+1 ENDO+2	C4013013 C4013014 C4013015	-,	Ĵ.	MTRM O	43E 43B 136	0C17 0C17 0C17							
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CPIU-DIAG MUN SKELETONS				PAGE	9	0 0						ZAZIEM		PART N PAGE	0. 2242265 9A	•
						0 3	CF 10-	OTAG HUN SK	ELE IUNS	SKELE III	ON ID-08C4-04-0					
012D CKYN E 012C KEY • E				C4040001 C4040002		0 0	0C72 0C7B	0012 000A		EBC EBC	.CIMAL ILSW BI	FOR.		C4040069 C4040070		:
Ol2E SSUER E Ol2F SIL E	EQU CKYN+1 EQU SSUER+1			C40400 <b>03</b> C404000 <b>4</b> C40400 <b>05</b>		0 0		0 FFFF 00 4C000138 0C81	END1	DC BSC L END	/FFFF Endo Endi		C404007	C4040071 C4040072 C4040082	, ,	•
0131 SCH E 0132 SER E	EQU SILSW+1 EQU SCH+1			C4040006 C404000 <b>7</b> C404000 <b>8</b>		o o										-
0133 SEC SU E 0134 SKINI E 0135 SKI NO E	EQU SECSU+1 EQU SK1N1+1			C4040009 C4040010 C4040011		o e										•
0136 РОК YB E 0137 РНК YB E 0138 ENDO E	EQU PDKYB+1 EQU PHKYB+1			C4046012 C4040013 C4040014		0 0										-
013A S2 E 013E BINRY E 01DF KEYIN E	EQU ENDO+2 EQU \$2+4			C4040015 C4040016 C4040017		0 0			•							7
0437 ZERÛ E 0438 BGNR E 0439 ERR E	EQU KEYIN+600 EQU ZERO+1			C4040018 C4040019 C4040020		0 0										7
043A WCC E 0436 MTRM E 043C TRFX E	EQU ERR+1 EQU WCC+1			C4040021 C4040022 C4040023		0 0										7
0430 TERM E 043E LWC E 042F LGROP E	EQU TRFX+1 EQU TERM+1			C4040024 C4040025 C4040026		o o										7
0440 STBF E 0441 SRTRY E 0C17 0 0U04 SKI1 D	EQU LGROP+1 EQU STBF+1	PIO		C4040027 C4040028 C4040029		o o										ר
0C18 0 0000 SK12 D 0C19 0 0001 SK13 D 0C1A 00 4480012E SK14 B	OC /0000 OC /0001	CD NO NO ENTRIES SET ERROR KETURN	SRC	C404003 <b>0</b> C404003 <b>1</b>		g. 0										, 1
0C1C 00 4480012C B 0C1E 1 0C3E D		ENTER IL		C4040033 C4040034		ā 0										, 1
OC20 00 448U012F B	SSI I SIL	CK INT LVL SAVE	SEC	C4040035 C4040036 C4040037		g 0										<u>`</u>
0C25 00 4480012C B		SET ERROR RETURN ENTER ILSW	SRC SRC	C4040038 C4040039 C4040040		0 0										, 1
0C28 0 8120 DO 0C29 00 44800130 B	OC /8120 SSI I SILSW	CK ILSW BIT	SRC			0 0										,
0C2C 0 C00E L	D SWB1	BUILD DDEF		C4040044 C4040045 C4040046												,
0C2E 0 F00E E1	UR SWB2 UR SWB3 TO SWB1	SAVE		C40400 <b>47</b> C4040048 C40400 <b>49</b>												,
GC32 01 66800C18 LI	.DX 12 SK12	SET IXING		C404005 <b>0</b> C404005 <b>1</b> C404005 <b>2</b>												,
0C36 0U 44800133 B: 0C38 1 UC3B D(	C ShB1	SET CARD	SRC	C4040053												,
0C38 0 0000 SWB1 DC 0C3C 0 0000 SWB2 DC	C 0 C 0	EXIT ENTRY STORAGE		C4040056 C4040057 C4040058	•	•										)
OC3E 0 000F SWB3 DO # OC3E 0012 SM1 E8	C /000F	CONSTANT 04-CD 00.		C4040059 C4040060 C4040061	•											7
GC47 U012 E8 GC50 0012 E8 GC59 000C E8	BC . ENTER 2 BC .CIMAL INTR BC .OR 1054-10	DIGIT DE. RPT LVL F.		C4040062 C4040063 C4040064												3
0C5F 0 FFFF DC * 0C60 0011 SM2 EE	C /FFFF			C4040065 C4040066 C4040067	•	1.										3
	BC . ENTER 2			C4040068	•											1
DATE 04N0V66 EC NO. 415233				PRUG ID 08C-	C4 <b>-</b> 0		DATE EC NO.	04N0V66 415233						PROG ID	08C4-0	3

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 10	0 0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 Page 10A	.)
CPID-DIAG MUN SKELETONS SKELETON ID-08C4-04-0	PAGE 10		CPIO-DIAG MON SKELETONS SKELETON ID-08C4-04-1		, 3
CRGSS REFERENCE LISTING		ָ ה ִ טּ	0000 DRG *+3095	C4041001	ר
SYMBOL VALUE REFERENCES			012C KEY EGU 300 012D CKYN EQU KEY+1 012E SSUER EQU CKYN+1	. C4041002 C4041003 C4041004	)
BINRY 013E 0C17 CKYN 012D 0C17		0 0	012F	C4041005 C4041006 C4041007	7
ENDO 0136 OC17,0C81 END1 UC81 OC83 ERR 0439 OC17 KEY 012C OC17,0C1C,0C25		0 0	0132 SER EQU SCH+1 0133 SEC SU EQU SER+1 0134 SKINI EQU SECSU+1	C+041008 C4041009 C4041010	3
KEYIN 01DF 0C17 LGRUP 043F 0C17 LWC 043E 0C17		0 0	0135 SKINO EQU SKINI+1 0136 POKYB EQU SKINO+1 0137 PHKYB EQU PDKYB+1	C4U41011 C4O41012 C4O41013	3
МТКМ 043B 0C17 РDКYB 0136 0C17 РНКYB 0137 0C17			0138 ENDO EUU PHKYB+1 013A S2 EQU ENDO+2 013E BINRY EQU \$2+4	C4041014 C4041015 C4041016	•
SCH 0131 0C17 SECSU 0133 0C17,0C36 SER 0132 0C17	-	3	01DF KEYIN EQU BINRY+161 0437 ZERO EQU KEYIN+600 0438 BGNR EQU ZER0+1	C4041017 C4041018 C4041019	
SIL 012F 0C17, 0C20 SILSW 0130 0C17, 0C29 SKINO 0135 0C17			0439 ERR EQU BGNR+1 043A WCC EQU ERR+1 043B MTRM EQU WCC+1	C4041020 C4041021 C4041022	•
SKIN1 0134 0C17 SKI1 0C17 0C30 SKI2 0C18 . 0C32		a ( 0 a ( 0	043C TRFX EQU MTRM+1 043D TERM EQU TRF%+1 043E LWC EQU TERM+1	C404102 <b>3</b> C404102 <b>4</b> C494102 <b>5</b>	•
SK13 OC19 OC34 SK14 OC1A SM1 OC3E OC1E		1 -	043F	C4041026 C4041027 C4041028	
SM2 UC60 OC27 SRTRY 0441 SSUER 012E UC17, UC1A, OC23		0   5 n, 0	0C17 0 0004 SKI1 DC /0004 0C18 0 FFFF SKI2 DC /FFFF 0C19 0 0000 SKI3 DC 0	C404102 <b>9</b> C404103 <b>0</b> C404103 <b>1</b>	
STBF 0440 0C17 SWB1 0C3B 0C22,0C2C,0C2F,0C38 SWB2 0C3C 0C2B,0C2D		0 0	OC1A O 0000 SKI4 DC O OC1B 00 4C000138 END1 BSC & ENDO OC1E OC1B END END1	C4041032 C4041033 C4041C3 C4041043	
SWB3 0C3D 0C2E S2 013A 0C17, 0C39 TERM 043D 0C17		0 2			
TRFX 043C 0C17 WCC 043A 0C17 ZERO 0437 0C17		0 =			
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EC NO. 415233	PAGE 10	0   3	EC NO. 415233	PAGE 10A	

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266	0 0	IBM MAINTENANCE -	DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM		3
CPIO-DIAG MUN SKELETONS SKELETON ID-08C4-04-1	PAGE 11	0 0			PART NO. 2242266 PAGE 11A	1
		<b>.</b>	PHIO-DIAG WOW ZKE	ELETONS SKELETUN ID-08C4-05-0		•
CRUSS REFERENCE LISTING		0 0	0000	ORG *+3095	C4050001	•
SYMBOL VALUE RFERENCES BGNR 0438 OC17 BINKY 013E OC17		0 0	012C 012D 012E	KEY EQU 300 CKYN EQU KEY+1 SS''ER EQU CKYN+1	C4050002 C4050003	3
CKYN 012D 0C17 ENDO 0138 0C17, 0C1B			012F 0130 0131	SIL EQU SSUER+1 SILSW EQU SIL+1	C4050004 C405000 <b>5</b> C405000 <b>6</b>	)
END1 OC1B OC1D ERR 0439 OC17 KEY 012C OC17		0 0	0132 0133	SCH EQU SILSH+1 SER EQU SCH+1 SECSUEQU SER+1	C405000 <b>7</b> C405000 <b>8</b>	)
KEYIN U1DF GC17 LGROP 043F OC17 LWC 043E OC17		0 0	0134 0135 0136	SKIN1 EQU SECSU+1 SKIN0 EQU SKIN1+1	C4050009 C4050010 C4050011	7
MTRM 043B 0C17 PDKYB 0136 0C17		0 0	0137 0138	PHKYB EQU PDKYB+1 ENDO EQU PHKYB+1	C4050012 C4050013 C4050014	)
PHKYB 0137 0C17 SCH 0131 0U17 SECSU 0133 0C17		n 0	013A 013E 01DF	S2 EQU ENDO+2 BINRY EQU S2+4 KEYIN EQU BINRY+161	C40500 <b>15</b> C40500 <b>16</b>	า
SER 0132 0C17 SIL 012F 0C17		0 0	0437 0438 0439	ZERO EQU KEYIN+600 BGNR EQU ZERO+1	C4050017 C4050018 C4050019	, )
SKINO 0135 0C17 SKINI 0134 0C17		7 3	043A 043B	ERR EQU BGNR+1 WCC EQU ERR+1 MTRM EQU WCC+1	C405002 <b>0</b> C405002 <b>1</b> C40500 <b>22</b>	
SKII 0C17 SKI2 0C18 SKI3 0C19		-	043C 043D 043E	TRFX EQU MTRM+1 TERM EQU TRFX+1 LWC EQU TERM+1	C405002 <b>3</b> C405092 <b>4</b>	7
SKI4 OCIA Srtry 0441			043F 0440 0441	LGROP EQU LWC+1 STBF EQU LGROP+1	C4J50025 C4050026 C4050027	)
SSUER 012E 0C17 STBF 0440 0C17 S2 013A 0C17		, , ,	0C17 U 0005 0C18 O 0U00	SRTRY EQU STBF+1 SKI1 DC /0005 PID SKI2 DC 0 CD NO	C405002 <b>3</b> C405002 <b>9</b>	7
TERM 043D 0C17 TRFX 043C 0C17 WCC 043A 0C17		3	0C19 0 0G01 0C1A 00 4480012E 0C1C 00 4486012C	SKI3 DC /0001 NO ENTRIES SKI4 BSI I SSUER SET ERKOR RETURN	C4U50030 C4050031 SRC C4U50032	),
ZERO 0437 OC17			OCIE 1 OC43 OCIF O 8120	DC SM1 DC /8120	SRC C4050033 C4050034 C4050035	7
		5 0	0C20 00 4480012F 0C22 0 D01D	BSI I SIL CK INT LVL STO SWB1	SRC C4050036 C4050037	)
			0C23 00 4480012E 0C25 00 4480012C 0C27 1 0C63	BSI I SSUER SET ERKOR RETURN BSI I KEY ILSW BIT 1ST 1627	C4050038 SRC C4050039 SRC C4050040	<b>a</b>
		- :	0C28 0 8120 GC29 00 448U0130	DC SM2 DC /8120 BSI I SILSW CK ILSW BIT	C4050041 C4050042 SRC C4050043	,
		-   -	0C2B 0 D015 0C2C 01 C40UUC40 0C2E U1 F4000C41	STO SWB2 SAVE LD L SWB1 BUILD DUEF EOR L SWB2	C405004 <b>4</b> C405004 <b>5</b>	,
		_   _	0C30 01 F40U0C3F 0C32 01 D4UU0C40	EOR L KOOOF STO L SW81 SAVE	C405u046 C40500 <b>47</b> C405004 <b>8</b>	)
			0C34 01 65800C17 0C36 01 6680UC18	SK3 LDX 11 SK11 SET IXING LDX 12 SK12	C4050049 C405u050 C4050051	)
		_	0C38 01 67800C19 0C3A 00 44800133 0C3C 1 0C40	IDX 13 SK13 BSI I SECSU SET CARD DC SWB1	C4050052 SRC C4050053 C4050054	)
			0C3D 00 4C00013A 0C3F 0 000F	B SC L S2 * KOU OF DC /OOOF	C4050055 C4050056	3
		-	0C40 0 0000 0C41 0 0G00 0C42 0 0000	SWB1 DC O ENTRY STORAGE SWB2 DC O	C4050057 C4050058 C4050059	3
		• •	0043 0012	SWB3 DC 0 * SM1 EBC .COO1 P1D 05-CD GO.	C405006 <b>0</b> C405006 <b>1</b> C405006 <b>2</b>	3
		2 -	0C4C 0012 0C55 0012 0C5E 0007	EBC . ENTER 2 DIGIT DE. EBC .CIMAL INTRPT LVL F. EBC .OR 1627.	C4050063 C4050064	,
			OC62 O FFFF	DC /FFFF	C4050065 C4050066 C4050067	•
CATE 04NDV66	BDOC ID	gas das us us		SM2 EBC .C002 PID 05-CD 00.	C4050068	•
EC NO. 415233	PROG ID 08C4-0 PAGE 11		DATE 04N0V66 EC NO. +15233		PROG ID 08C4-0 PAGE 11A	Ĭ

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CP1G-DIAG MLN SKELETUNS SKELETON 1D-06C4-05-0  OCCC 0012 EBC .CIMAL ILSS BIT FOR. OCTE 0005 EBC .1027. OCTE 0005 EBC .1027. OCES 00 4C000138 END1 BSC L ENDO END1  OCSC 00 4C000138 END1 BSC L ENDO END1	PART NO. 2242266 PAGE 12 6 3  C4050069 C4050070 C4050072 C4050074 C4050074 C4050076 C4050084  0 5  0 0  0 0  0 0  0 0  0 0  0 0  0	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CP10-DIAG MON SKELETONS SKELETON 1D-08C4-05-0  CROSS REFERENCE LISTING  SYMBOL VALUE REFERENCES 80NR 0498 0C17 CKYN 012D 0C17 CKYN 012D 0C17 CKYN 012D 0C17 ENDO 0138 0C17 ENDO 0138 0C17 ENDO 0138 0C17 CKYN 012C 0C44 ERR 0439 0C17 CKYN 012C 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON 01DF 0C17 CKON	PART NO. 2242266 PAGE   PART NO. 2242266 PAGE
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0 3 IBM HAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266 IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266 PAGE 13 Į 8 PAGE 3 CPIU-DIAG MON SKELETONS SKELETON ID-03C4-05-1 CPIO-DIAG MON SKELETONS SKELETON ID-08C4-05-1 I 0000 *+3095 C4051001 CROSS REFERENCE LISTING 1 1 012C KEY EQU 300 C4051002 0120 CKYN EQU KEY+1 C4051003 REFERENCES SYMBUL VALUE SSUER EQU 012E CKYN+1 C4051004 EGNR 0438 0017 3 SIL EQU SILSW EQU 012F SSUER+1 C4051005 BINRY 013E 0C17 0130 SIL+1 C4051006 CKYN G12D 0C17 SCH EQU SER EQU 0131 SILSW+1 C4051007 ENDO 0138 OC17, OC18 G ÷ 0 0132 SCH+1 C4051008 END1 OCIB OCID SECSU EQU 0133 SER+1 C4051009 ERR 0439 0134 SKIN1 EQU SECSU+1 C4051010 KEY 012C 0C17 0 O 0135 SKINO EQU SKIN1+1 C4051011 KEYIN OldF 0C17 0136 PDKYB EQU SKINO+1 C4051012 LGROP 043F 0C17 0137 PDKYB+1 PHKYB EQU C4051013 043E 0 Ð LWC 0138 ENDO EQU PHKY6+1 C4051014 PTRM 043B OC17 S2 EQU BINRY EQU 013A END0+2 C4051015 PDKYB 0136 OC17 013E S2+4 C4051016 PHKYB 0137 0017 O 010F KEYIN EQU BINRY+161 C4U51017 SCH 0131 OC17 0437 ZERO EQU KEYIN+600 C4051018 SECSU 0133 OC17 0438 BGNR EQU ZERO+1 C4051019 SER 0132 OC17 € ERR BGNR+1 0439 EQU C4051020 012F 0C17 043A WCC EQU ERR+1 C4051021 SILSW 0130 0C17 MTRM EQU 0438 WCC+1 C4051022 SKINO 0135 OC 17 0 TRFX EQU 043C MTRM+1 C4C51023 SKIN1 0134 0C17 TERM EQU TRFX+1 0430 C4051024 SKII 0C17 043E LWC EQU TERM+1 C4051025 SKIZ 0018 0 G 043F LGRO? EQU LWC+1 C4051026 SKI3 0019 0440 STBF EQU LGROP+1 C4051027 SKI4 OC1A 0441 SRTRY EQU STBF+1 C4051028 SRTRY 0441 Ð 0 0017 0 0005 SKI1 DC /0005 C4051029 SSUER 012E 0C17 0C18 0 FFFF SKI2 DC /FFFF C4051030 STBF 0440 0C17 OC19 0 0000 SKI3 DC C4051031 013A Ð OC 17 0. 1, SKI4 DC OC1A 0 0000 C4051032 TERM 043D OC 17 0018 00 40000138 END1 BSC L END0 C4051033 TRFX 043C OC17 OCIB END ENDL C405103 C4051043 Ð MCC 043A 0017 0 ZERO 0437 0C17 Ū 0 0 3 0 3 Ĵ 0 0 0 0 I 1 3 1 8 PROG ID 08C4-0 04N0V66 DATE 04N0V66 DATE PROG ID 08C4-0 EC NO. 415233 PAGE EC NO. 415233 PAGE 2 1 1 1

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0 IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266 PAGE 0 CPID-DIAG MON SKELETONS SKELETON ID-08C4-06-0 0 0000 ORG *+3095 C406C001 Ū 012C KFY ECU 300 C4060002 0120 CKYN FOU KEY+1 C4060003 012F SSUER EQU CKYN+1 C4060004 Ū 012F SIL EQU SSUER+1 C4060005 0130 SILSW EQU SIL+1 C4060006 0131 SCH EQU SILSW+1 C4060007 0 0132 SER EQU SCH+1 C4060008 0133 SECSU EQU SER+1 C4060009 0134 SKIN1 EQU SECSU+1 C4060010 O 0135 SKING EQU SKIN1+1 C4060011 0136 PDKYB EQU SKINO+1 C4060012 0137 PHKYB EQU PDKYB+1 C4060013 O 0138 ENDO EQU PHKYB+1 C4060014 0134 ENDO+2 C4060015 013E BINRY EQU \$2+4 C4060016 G OLDE KEYIN EQU BINKY+161 C4060017 0437 ZERO KEYIN+600 EQU C4060018 0438 BGNR EQU ZEKO+1 C4060019 O 0439 ERR EQU BGNR+1 C4060020 043A WCC EQU ERR+1 C4060021 0438 MTRM EQU WCC+1 C4060022 Q 043C TRFX EQU HTRM+1 C4000023 043D TERM TRFX+1 EųU C4060024 043E LWC TERM+1 C4060025 0 043F LGROP EQU LWC+1 C4060026 0440 STBF EQU LGROP+1 C4060027 0441 SRTRY EQU STBF+1 C4060028 0 0017 0 0006 SKI1 DC /0006 C4060029 0018 0 0000 SKI2 DC /0000 CD NO C4060030 0C19 0 0G0A SKI3 DC /000A NO OF ENTRIES C4060031 Jal O OC1A 0 63UA SKI4 LDX 3 10 C4060032 OC18 O 1610 C4060033 OC1C 01 D7000CD0 SK9 STO L3 SW61-1 CLEAR CATA STORAGE C4060034 010 OC1E 0 73FF MDX DECR IX 3 3 -1 C4060035 OC1F 0 70FC MDX SK9 LOOP C4060036 0C20 01 C4000CC8 I D K0003 C4060037 9 OC22 01 D4000CCA STO MONSW C4060038 OC24 UO 448UO12E SSUER SET ERROR KETURN C4060039 0C26 00 4480012C BSI KEY ENTER TOTAL TYPES SRC I C4060040 0028 1 0003 SMI C4060041 CC29 0 8110 DC /8110 C4060042 C4060043 0C2A 00 C400013E LD BINRY GET ENTRY C4060044 OC2C 01 4C180CF6 B SC SKEO1 .+-BR IF ZERO C4060045 OC2E 01 84000CCD CMP L K0008 CK FOR MAX C4060046 0C30 0 703F MDX SKE02 ERROR C4060047 OC31 0 1000 NOP C4060048 0C32 01 D4000CCF STO L TYCT SAVE C4060049 0C34 01 D4000CD0 STO L TYCT1 C4060050 C4060051 0C36 00 4480012E SK2 BSI SSUER SET ERROR RETURN C4050052 0C38 00 4480U12C BSI KEY IL FOR TYPE SRC C4060053 OC3A 1 OD27 DC SM2 C4060054 OC3E 0 8120 DC /8320 C4060055 1 C4060056 0C3C 00 4480012F BSI SIL CK IL C4060057 OC3E 01 D4000CC4 STO TEMP SAVE l. C4060058 1 C4060059 OC40 00 4480012E SSUER SET ERROR RETURN SRC C4060060 0C42 00 4480012C BSI KE Y ENTER ILSH SRC C4060061 ſ 0C44 1 0C4A DC SM3 C4060062 0045 0 8120 DC /8120 C4060063 C4060064 0046 00 44800130 BSI SILSW OK ILSH BIT C4060065 0C48 G1 F4000CC4 EOR L TEMP BUILD DDEF C4060066 0C4A 01 F4000CCE EOR L HOUDE C4060067 OC4C 0 D077 STO TEMP C4000068 DATE 04NDV66 PROG ID 08C4-0 EC NO. 415233 PAGE Î

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266 PAGE ) CPIO-DIAG MON SKELETONS SKELETCH ID-08C4-06-0 ) C4060069 ) 0C4D 00 4480012E BSI SET ERROR RETURN I SSUER SRC C4060070 0C4F 00 4480012C BSI KEY ENTER TYPE NO SRC C4060071 0051 1 0075 DC SM5 C4060072 ) 0052 0 8110 DC /8110 C4060073 C4060074 0C53 00 C400013E 1 D BINRY GET ENTRY C4060075 ) 0C55 01 4C180CF9 BSC L SKE03,+-BR IF ZERO C4060076 OC57 0 BO75 CMP K0008 CK FOR MAX C4060077 0058 0 7068 MDX SKE04 **ERROR** C4060078 ) 0059 0 1000 NOP C4060079 OC5A 01 D4000C5D STO L S4+1 C4060080 UCSC 00 67000000 54 LOX L3 0 C4060081 ) OC5E 01 74000CCA MDX L MONSW,O IS PON DV SET C4000082 0060 0 7002 MDX C4050083 0061 01 40000060 B SC SK3 C4060084 3 0C63 00 4480012E T2 BSI SSUER SET ERROR RETURN C4060085 C4060086 0065 00 44800120 BSI 1 KEY IS THIS MON DEV SRC C4060087 ) 0067 1 0093 DC SM6 C406G088 0008 0 8000 DC /8000 C4060089 C4060090 ) 0069 00 44800120 BSI I CKYN CK FOR Y OR N C4060091 0068 0 7007 MDX SK4 ENTRY WAS Y C4060092 C4060093 ) 0C6C 0 C057 SK3 LD TEMP GET DDEF C4060094 OC6D 01 D7000CD1 SKA STO L3 SWB1 C4060095 0C6F 0 701B MDX SK5 C406J096 ) 0070 00 44800132 SKE 02 BSI I SER MORE THAN 8 TYPES C4060091 0C72 1 0DDE DC SE001 C4060098 C4060099 **)**; OC73 0 C050 SK4 LD TEMP C4060100 0C74 0 D05C STO SWBI C4060101 GC75 0 1010 SLA 16 C4060102 ) 0C76 01 D7000CD1 STO L3 SWB1 C4060103 0C78 01 D4000CCA STO L MONSW CLEAR MCN SW C4060104 0C7A 01 C7U00CD1 LD L3 SWB1 **GET ENTRY** C4060105 ) OC7C 0 4820 B SC SKIP IF ZERO C4060106 OC7D 0 700D MDX SK5 BRANCH C4060107 OC7E 0 6302 LDX 3 2 SET IX C4060108 7 CC7F 01 C4000C5D I D L S4+1 GET ID C4060109 OC81 0 F046 EDR K0001 CK FOR 1 C4060110 0082 01 40180099 B SC L SK5A,+-BRANCH IF 1 C4060111 7 0084 01 04000050 LD L S4+1 GET ID C4060112 0C86 01 F4000CCC EOR L K0005 CK FOR 5 C4060113 OC88 01 4C200CA2 B SC L SK7.Z BRANCH IF NOT 5 C4060114 ) 0C8A 0 700E MDX SK5A BRANCH C4060115 0088 0 6300 SK5 3 0 LDX C4060116 OC8C 01 C4000C5D LD \$4+1 GET NUMBER C4060117 7 OC8E 01 F4000CC8 EOR L K0001 IS IT 1 C4060118 0090 01 40180099 B SC L SK5A,+-YES C406G119 0092 0 6301 LDX 3 1 C4060120 7 CC93 01 C4000C50 LD S4+1 GET NUPBER C4060121 0C95 01 F400UCCC EOR L K0005 1S 1T 5 C4060122 0C97 U1 4C200CA2 B SC SK7.Z C4060123 3 0C99 00 4480012E SK5A BSI I SSUER SET ERROR KETURN C4060124 CC9B 00 4480012C BSI I KEY IS IT 1816 SRC C4060125 OC9D 1 ODBD DC SM7 C4060126 3 CC9E 0 8000 DC /8000 C4060127 C4060128 0C9F 00 4480012D BSI 1 CKYN CK FOR Y OR N C4060129 OCA1 0 7004 MDX SK6 ENTRY WAS Y C4060130 C4060131 OCA2 O1 74FFOCCF SK7 MDX L TYCT.-1 DECR TYPE CT C4060132 1 OCA4 U 7091 MDX SK2 LOOP C4060133 GCA5 0 7035 MDX SK8 EXIT C4060134 OCA6 01 C7UOOCC5 SK6 L3 TBL LD SET 1816 IND C4060135 1 OCA8 0 F031 EOR SWB10 C4060136 3 DATE O4NGV66 PROG ID 08C4-0 EC NO. 415233 PAGE 7

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IBM MAINTENANCE DIAGNO					Œ	1					`			, ,	`	ţ •	•
			PA Pa	RT NO. 2242266 GE 15	:	3	IBM MAINTENANCE DI	AGNOST1	C PROG	GRAM FOR	THE 1900 :	SYSTEM		PART	NO. 2242266	•	•
CPIO-DIAG MON SKELETON	IS SKELETON ID-08C4	4-06-0			•	•	CPIO-DIAG MON SKEL	ETONS	SKELE	TCN ID-0	8C4-06-0			PAGE	15A	:	)
0CA9 0 D030	STO SWB10		54044	0127	•	, <b>4</b> 										:	)
0CAA 0 73FF 0CAB 0 7001 0CAC 0 70F5	MDX 3 -1 MDX SKSO MDX SK7	DECR IX 3 Branch	C406( C406( C406(	0138 0139	:	*	OCFB 1 ODDE OCFC 01 65000C1A	SKE U5	DC LDX	SE001 L1 SK14			•	C406020 C406020		-	)
OCAD 01 C4000C5D SK. OCAF 0 F018 OCBO 01 4C160C84	SC LD L S4+1 EOR K0001	GET ID IS IT 1	C4060 C4060 C4060	0141	;	3	OCFE 00 6D000441 OD00 00 44800132 OD02 1 ODF5			L1 SRTRY I SER SE005	2 DDE	FS ALIKE	SRI	C406020	7	_	·
0CB2 0 6301 0CB3 0 70F2	BSC L SKS1,+- LDX 3 1 MDX SK6	YES Set ix	C4060 C4060	0143	:	3	0003 0012	* SM1	EBC		PID 06-CD	00.		C406020 C406021 C406021	Ď	•	,
0CB4 0 6300 SKS 0CB5 0 70FU	S1 LDX 3 0 MDX SK6	SET IX	C4060 C4060 C4060	0146	•	S	0D0C 0012 0D15 0012 0D1E 0010		EBC EBC EBC	• EN •TYPE	TER NUMBER WRITERS ON	OF . SYS.		C405021. C406021	2	7	)
008 01 66800018	B LDX 11 SK11 LDX 12 SK12	SET IXING	C4060 C4060	)148 )149		•	OD26 O FFFF	•	DC	/FFFF	1-8, 1 DIGI	1.		C406021 C406021 C406021	5	ר	)
OCBA 01 67800C19 OCBC 00 44800133	LDX 13 SK13		C4060 C4060 C4060	151	•	J	0D27 0012 0D30 0012 0D39 0012		EBC EBC EBC	<ul> <li>EN</li> </ul>	PID 06-CD TER 2 DIGIT L INTR LVL	DE.		C4060211 C4060211		)	)
0CBE 1 0CD1 0CBF 00 4C00013A	BSI I SECSU DC SWB1 BSC L S2	SET CARD Exit	SRC C4060 C4060	2153 2154	:	O	0042 000D 0049 0 FFFF		EBC DC		YPEWRITER.	ruk.		C4060219 C4060220 C4060221	)	)	) (
	O4 BSI I SER DC SE001	FLD GREATER 8	C4060 SRC C4060 C4060	156	:	Ũ	OD4A 0012 OD53 0012		EBC EBC	• C002	PID 06-CD TER 2 DIGIT	0		C4060223 C4060223		·	
OCC 5 0 4000 TBL	IP DC 0	CONSTANTS	C4060 C4060	158 159	5	ō	0D5C 0012 0D65 0012 0D6E 000B		EBC EBC	.CIMAL	L ILSW BIT I EWRITER ON A	FOR.		C4060224 C4060225 C4060226		,	,
0CC6 0 0400 0CC7 0 8000 0CC8 0 0001 K00	DC /0400 DC /8000		C4060; C4060; C4060;	161	=	ō	0074 0 FFFF		EBC DC	-VE IN /FFFF	NTR LVL.			C4060221 C4060228		ז	1
OCC9 1 OCDA KLM OCCA O UUOU MON	01 DC 1 T DC SWB10 S4 DC 0	•	C4060) C4060)	163 164	3	-,	0D75 0012 0D7E 0012 0D87 0012	(	EBC EbC	<ul><li>ENT</li></ul>	PID 06-CD ER 1 DIGIT	TY.		C4060229 C4060230 C4060231		)	1 *
0CCB 0 0400 0CCC 0 0005 KU0	DC /0400 05 DC 5		C4060] C4060] C4060]	166			0D90 0004 0D92 0 FFFF		EBC EBC DC	-PEWRI 1-8. /FFFF	TER ID NUME	BER.		C4060232 C4060233		3	
0CCE 0 000F H00 0CCF 0 6000 TYC	03 DC 8 OF DC /000F T DC 0		C40601 C40601	768 169	- s	0	0D93	* \$M6 {	E B <b>C</b>	•C036	PID 06-CD	00.		C4060234 C4060235 C4060236		3	* <b>S</b>
0CD1 0 0000 SWB	T1 DC 9 1 DC 0 2 DC 0	DATA STORAGE	C40601 C40601 C40601	171	=	O	ODA5 0012 ODAE 0012	E	EB <b>C</b> EB <b>C</b> EB <b>C</b>	<ul> <li>NUMBE</li> </ul>	THE ABOVE I R FOR DIAG PUT DEVICE-	MCia		C4060237 C4u60238		1	
0CD3 0 UU00 SWB 0CD4 0 0000 SWB	3 DC 0		C40601 C40601	174	5	0	ODE7 0009 ODBC O FFFF		EBC DC	.PE Y	OR N.	• • •		C4060239 C4060240 C4060241		,	
	5 DC 0 6 DC 0 7 DC 0		C40601 C40601 C40601	76	3	ō	ODBD 0012 ODC6 0012	SM7 E	EBC EBC	• IS	PID 06-CD THE ABOVE I	0 -		C4060242 C4060243		3	
0CD8 0 0000 SWB 9	8 DC 0 9 DC 0		C40601 C40601 C40601	.78 .79	-	<u> </u>	ODCF 0012 ODD8 0009 OUDD O·FFFF	Ε	BC BC C	- NUMBEI	R FOR 1816-	TY.		C4060244 C4060245 C4060246		ז	
OCDA O 0000 SWB1  •  OCDB 01 67800CD0 SK8	LDX I3 TYCT1		C40601 C40501	81 82		-,	ODDE 0012	* SE001 E	ВС	/FFFF •E007	PID 06-CD	00.		C4060247 C4060248		?	
0CDD 00 6500FFF8 0CDF 01 66000CD2	LDX L1 -8 LDX L2 SWB2		C40601 C40601 C40601	84	-	1	0DE7 0012 0DF0 0008 0DF4 0 FFFF	Ε	BC BC C	• ENTE • DR OC /FFFF	RY TOO LARG	E .		C4060249 C4060250 C4060251		3	
OCE1 0 6A01 OCE2 00 66000000 SKX OCE4 01 C5000CD9 SKX1	STX 2 SKX+1 LDX L2 0 LD L1 SWB1+8	CK DDEFS	C40601 C40601	86 87	:	-,	ODF5 0012	* SE005 E	вс	•E006	PID 06-CD (	0 <b>0.</b>		C4060252 C4060253 C4060254		3	1
0CE6 01 4C180CEB 0CE8 0 F200	BSC L SKAL,+- EOR 2 0		C40601: C40601: C40601:	89	2	-	0DFE 0012 0E07 000F 0E0F 0 FFFF	E	BC BC C	<ul> <li>2 CR</li> </ul>	MORE ENTR	IE.		C406025 <b>5</b> C406025 <b>6</b>		3	¢
OCE9 01 4C180CFC OCEB 0 7201 SKA1 OCEC U 6AD7	BSC L SKE05,+- MDX 2 1 STX 2 TEMP		C406019 C406019	91 92	:		0E10 0U 4C0U0138	<b>≄</b> END1 B	SC L	ENDO				C406025 <b>7</b> C406025 <b>8</b> C406025 <b>9</b>			
OCED O CODB OCEE O FOD5	LD KLMT Eor temp		C406019 C406019 C406019	94	8	()	0E12 0E10	E	ΝD	END1			C40602	5 C4060269		1	
0CEF 01 4C200CE4 0CF1 01 74010CE3 0CF3 0 7101	BSC L SKX1, Z MDX L SKX+1,1 MDX 1 1		C406019 C406019	96 97		ס										1	<b>3</b>
0CF4 0 70ED 0CF5 0 70C0	MDX SKX MDX SKB		C406019 C406019 C406020	99		_										•	
OCF8 1 ODDE	1 BSI I SER DC SEOO1	ZERG TYPES	C406020 SRC C406020	)1 )2	1	0										8	i i
	3 bSI I SER	FLD ZERC	SRC C406020		1 :	<b>.</b>										•	
DATE 04NOV66 EC NO. 415233			PROG		1 :	2	DATE 04NDV66									<b>a</b> ;	:
			PAGE	15	2 3	)	EC NO. 415233							PROG ID PAGE	08C4-0 15A	<b>3</b>	† †
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM		3		
CP10-DIAG MUN SKELETONS SKELETON 10-06C4-06-0	PART NO. 2242266 Page 16	:	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1300 SYSTEM PART NO. 224	2244
CROSS REFERENCE LISTING		:	DPIO-DIAG MON SKELETONS SKELETON ID-08C4-06-0	16A
SYMBOL VALUE REFERENCES		:	SWB3 OCD3	
BINRY 013E 0C17,0C2A,0C53 CKYN 012D 0C17,0C69,0C9F		=	SWB4 UCD4 SWB5 OCD5 SWB6 OCD6	
END1 0E10 0E12 ERR 0439 0C17		=	ShB7 OCD7 Swb8 OCD8 Swb9 OCD9	
HOOUF OCCE OC4A KEY U12C OC17, OC20, OC38, OC42, OC4F, OC65, OC9B KEYIN O1DF OC17		=	S2 013A 0C17,0CBF S4 0C5C 0C5A,0C7F,0C84,0C8C,0C93,0CAD TBL GCC5 0CA6	
KLMT		=	TEMP OCC4 OC3E, OC48, OC4C, OC6C, OC73, OCEC, OCEE TERM 043D OC17	
KOOOB OCCD OC2E, OC57 LGROP 043F OC17 LWC 043E OC17		-	TYCT OCCF OC32, OCA2 TYCT1 OCDO OC34, OCDB	
MONSH OCCA OC22,0C5E,0C78 MTRM 043B OC17 PDKYG 0136 OC17		0	T2 0C63 0C60 MCC 043A 0C17 ZERO 0437 0C17	
PHKYB 0137 0C17 SCH 0131 0C17		0		
SER 0132 0C17, 0C70, 0CC1, 0CF6, 0CF9, 0D00 SE001 0DDE 0C72, 0CC3, 0CF8, 0CF8		_		
SIL 012F 0C17, 0C3C SILSW 0130 0C17, 0C46		0		
SKA UC6D SKA1 OCEB OCE6 SKB OCB6 OCF5		0 :		
SKE01 0CF6 0C2C SKE02 0C70 0C30 SKE03 0CF9 0C55		Os (		
SKEU4 OCC1 OC58 SKEU5 OCFC OCE9 SKINU U135 OC17		0 (		
SKIN1 0134 0C17 SKI1 0C17 0CB6 SKI2 0C18 0CB8		0 0		
SK13 OC19 OCBA SK14 OC1A OCFC SKSO OCAD OCAB		0 0		
SKS1 0CB4 0CB0 SKX 0CE2 0CE1,0CF1,0CF4		: :		•
SK2 0C36 0CA4 SK3 0C6C 0C61		3   3		•
SK5 0C8B 0C6F,0C7D SK5A 0C99 0C82,0C8A,0C90		:   :		3
SK7 OCA2 OC88, OC97, OCAC SK8 OCDB OCA5		<b>:</b> 7		1
SK9 OCIC OCIF SM1 ODU3 OC28 SM2 OD27 OC3A		: -,		1
SM3		1 0		3
SM7		<b>1</b> 0		1
SEUER 012E 0C17,0C24,0C36,0C40,0C4D,0C63,0C99 STBF 0440 0C17 SWB1 0CD1 0C1C,0C6D,0C74,0C76,0C7A,0CBE,0CE4 SWB10 0CDA 0CAB,0CA9,0CC9		1 0		1
ShB2 OCD2 OCDF		8 0		1
DATE	PROG ID 08C4-0 PAGE 16	8 0		1

18M MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CPIO-DIAG MON SKELETONS SKELETON 10-08C4-06-1	PART NO. 2242266 PAGE 17	: 1	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 17A 3
0000	C4061001 C4061002 C4061003 C4061004 C4061005 C4061006 C4061007 C4061008	a = a = a = a = a = a = a = a = a = a =	CROSS REFERENCE LISTING  SYMBOL VALUE REFERENCES BGNR 0438 OC17 BINRY 013E OC17 CKYN 012D OC17 ENDO 0138 OC17, OC18	3 , 3
0133	C4061009 C4061010 C4061011 C4061012 C4061013 C4061014 C4061015 C4061016 C4061017 C4061018 C4061019 C4061020 C4061021 C4061022 C4061023 C4061023	0 0 0 0 0 0 0 0 0 0	END1 OC1B OC1D  ERR 0439 OC17  KEY 012C OC17  KEYIN 01DF OC17  LGKOP 043F OC17  LWC 043E OC17  MTRM 043B OC17  PDKYB 0136 OC17  PHKYB 0137 OC17  SCH 0131 OC17  SECSU 0133 OC17  SER 0132 OC17  SIL 012F OC17  SILSM 0130 OC17  SKING 0135 OC17  SKING 0135 OC17  SKINI 0134 OC17	3 3 3 3
043E	C4061025 C4061026 C4061027 C4061028 C4061029 C4061030 C4061031 C4061032 C4061033 C4061033 C4061033	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SKI2 OC18 SKI3 OC19 SKI4 OC1A SRTRY O441 SSUER 012E OC17 STBF U440 OC17 S2 013A OC17 TERM 043D OC17 TRFX O43C OC17 MCC G43A OC17 ZERO 0437 OC17	1 3 7 3
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		CPIO	-DIAG MO	ON SKELE	ETONS	SKELE TO	N ID-O	EC4-07-0	1				oc.	10		¥	Ū			)DIAC M								PAG		184		<b>)</b>

IBM MAINTENANCE D	IAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 18	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266  PAGE 18A
CPIO-DIAG MON SKE	LETONS SKELETON ID-0EC4-07-0	t	CP10-DIAG MON SKELETONS SKELETON 1D-08C4-07-0
000 <b>0</b> 012 <b>C</b>	DRG *+3095	C4070001 •	Û * C4070069
0120 012E	KEY EQU 300 CKYN EQU KEY+1 SSUER EQU CKYN+1	C4070003	* DRIVE 1S 9 TRACK C4070070 * C4070071
012F 0130	SIL EQU SSUER+1 SILSW EQU SIL+1	C4070004	0C46 01 C4000C83
0131 0132 0133	SCH EQU SILSW+1 SER EQU SCH+1 SECSU EQU SER+1	C4070007 C4070008	C4070074  OC4A 00 4480012E SK1C BSI I SSUER SET ERROR RETURN SRC C4070075  OC4C 00 4480012C BSI I KEY IS DR 1 AVAIL SRC C4070076
0134 0135	SKIND EQU SECSU+1 SKINO EQU SKINI+1	C4070009 C4070010 C4070011	0C4E 1 UD09 DC SM5 C4070077 C 0C4F 0 8000 DC /8000 C4070078
0136 0137	PDKYB EQU SKINO+1 PHKYB EQU PDKYB+1	C4070012 C4070013	0C50 0U 4480012D BSI I CKYN CK FOR Y DR N SRC C4070080
0138 013A 013E	ENDO 2QU PHKYB+1 S2 EQU ENDO+2 BINRY EQU S2+4	C4070014 C4070015	0 0C52 0 7001 MDX SKI5 ENTRY WAS Y C407G081 0C53 0 7013 MDX SKIF ENTRY WAS N C4070U82 C4070083
01DF 0437	KEYI4 EQU BINRY+161 ZERO EQU KEYIN+600	C4070016 C4070017 C4070018	OC54 00 4480012E SKI5 BSI I SSUER SET ERRCR RETURN SRC C4070084 OC56 00 4480012C BSI I KEY IS DR 1 9 TRK SRC C4070085
0438 0439 043A	BGNR EQU ZERO+1 ERR EQU BGNR+1 HCC EQU ERR+1	C4070019 C4070020	0C58 1 0D28 DC SN5 C4070086 0C59 0 8000 DC /8000 C4070087
043B 043C	MTRM EQU WCC+1 TRFX EQU MTRM+1	C4070021 C4070022 C4070023	OC5A 00 4480C12D BSI I CKYN CK FOR Y DR N SRC C4070089 OC5C 0 7005 MDX SK20 ENTRY WAS Y C4070090
043D 043E 043F	TERM EQU TRFX+1 LWC EQU TERM+1 LGROP EQU LWG+1	C4070024 C4070025 ,~	© C4070091  * DRIVE 1 IS 7 TRACK C4070092  C4070093
0440 0441	STBF EQU LGROP+1 SRTRY EQU STBF+1	C4070026 C4070027 C4070028	0C5E 01 C400UC82 SK18 LD L TR7 SET DR 1 = 7 TRK C4070E94 0C5F 01 D400UC88 STO L SWB5 SAVE C4070E95
0C17 0 0007 0C18 0 0000 0C19 0 0003	SKI1 DC /0007 PID SKI2 DC /0000 CD NO SKI3 DC /0003 NO ENTRIES	C4070029 C4070030	0C61 0 7009 MDX SK21 C4070096  * C4070097  * DRIVE 1 IS 9 TRACK C4070098
OCIA 00 4480012E OCIC 00 4480012C	SKI3 DC /0003 NO ENTRIES SKI4 BSI I SSUER SET ERROR RETURN BSI I KEY ENTER IL	C4070031 SRC C4070032 SRC C4070033	C4070099  0C62 01 C4000C83 SK20 LD L TR9 SET DR 1 = 9 TRK C4070100
0C1F 0 8120	DC SM1 DC /8120	C4070034 C4070035	0C64 01 D4000C88 STD L SWB5 SAVE C4070101 0C66 0 7004 MDX SK21 C4070102
0C20 00 4480012F 0C22 01 D4000C84	BSI I SIL CK INT LVL STO L SWB1 SAVE	C4070036 SRC C4070037 C4070038	0C69 01 D4000C88 STO L SWB5 SAVE C4C70104 0C68 01 65000C84 SK21 LDX L1 SWB1 BUILD DDEF C4070105
0C24 00 4480012E 0C26 00 4480012C	* SKIA BSI I SSUER SET ERROR RETURN BSI I KEY ENTER ILSW	C4070039 SRC C4070040	0C6C 0 C100 LD 1 0 C4070106 0C6E 0 F101 EGK 1 1 C4070107 0C6F 0 F102 EDR 1 2 C4070108
0C26 1 OCAB 0C29 0 8120	DC	SRC C4070041 C4070042 C4070043	0C70 0 D100 STO 1 0 SAVE C4070109 C4070110
0C2A 00 44800130 0C2C 01 D4000C85	# BSI I SILSW CK ILSW BIT STO L SWB2 SAVE	C4070044 SRC C4070045	0C71 01 C4000C87 LD L SWB4 SET DR 0-NO TRKS C4070111 0C73 0 D101 STO 1 1 C4070112
OC2E 00 4480012E	STO L SWB2 SAVE  BSI I SSUER SET ERRCR RETURN	C4070046 C4070047 SRC C4070048	0C74 01 C4000C88 LD L SWB5 SET DR 1-NO TRKS C4070114 0C76 0 D102 STO 1 2 C4070115
0C30 00 4480012C 0C32 1 0CCC 0C33 0 8110	BSI I KEY ENTER CHANNEL DC SM3 DC /8110	SRC C4070049 C4070050	0C77 01 66800C18 LDX 12 SKI2 SET IXING C4070116 0C79 01 65800C17 LDX 11 SKI1 C4070118
0C34 00 44800131	<b>*</b>	C4070051 C4070052 SRC C4070053	CC78 01 67800C19 LDX 13 SK13 C4070119 C4070120
0C36 01 D4000C86 0C38 00 4480012E	STO L SWB3  BSI I SSUER SET ERROR RETURN	C4070054 C4070055 -	0C7F 1 0C84 DC SWB1 C+070122
0C3A 00 4480012C 0C3C 1 0CEA	BSI I KEY IS DR U A 9 TRK DC SM4	SRC C4070056 SRC C4070057 C4070058	C4070124 C4070125
0C3D 0 8000 0C3E 00 4480012D	DC /8000 * BSI I CKYN CK FOR Y DR N	C4070059 C4070060	OC83 0 0000 TR7 DC /0001 CONSTANTS C4070126 OC84 0 0000 TR9 DC /0000 C4070127
0040 0 7005	MDX SKIE ENTRY WAS Y	SRC C4070061 C4070062 C4070063	0C85 0 0000 SW82 DC 0 C4070129 C4070129
0C41 01 C4000C82	* DRIVE IS 7 TRACK * SK18 LD L TR7 SET DR 0 = 7 TRK	C4070064	CC88 0 0000 SWB5 DC 0 C4070131 C4070132
0C43 01 D4000C87 0C45 0 7004	STO L SWB4 SAVE MDX SK1C	C4070066 C4070067 C4070068	OC89 O012 SM1 EBC .CO01 PID 07-CD OO. C4070133  C4070134  C92 O012 EBC .ENTER 2 DIGIT DE. C4070135  C4070135  C4070136
CATE 04NOV66 EC NG. 415233		PROG ID 08C4-0 PAGE 18	\$ CATE 04NDV66 EC ND. 415233 PROG ID 08C4-0

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 19			IGM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266	•
CPIO-DIAG MON SKELETONS SKELETON ID-08C4-07-0		0		PAGE 19A  DPIO-DIAG MON SKELETONS SKELETON ID-08C4-07-0	)
		G	3	5KEELEW 15-0864-07-0	)
OCA4 UOOB EBC .OR MAG TAPE. OCAA O FFFF DC /FFFF	· C4070137 C4070138	G	S	CROSS REFERENCE LISTING	
OCAB 0012 SM2 EBC .C002 PID 07-CD 00.	C407013 <b>9</b> C407014 <b>0</b>	o	•	SYMBOL VALUE REFERENCES BGNR 0438 OC17	)
OCBO OO12 EBC . ENTER 2 DIGIT DE. OCBD OO12 EBC .CIMAL ILSH BIT FOR. OCC6 OO09 EBC .MAG TAPE.	C4070141 C4070142	,	-	BINRY 013E 0C17 CKYN 012D 0C17,0C3E,0C50,0C5A	3
OCCB O FFFF DC /FFFF	C4070143 C4070144 C4070145	O	Đ	ENDO 0138 0C17,0044 END1 0D44 0D46	<b>)</b>
OCCC 0012 SM3 EBC .CU03 PID 07-CD GO. OCD5 0012 EBC .ENTER 1 DIGIT DE.	C4070146 C4070147	0	0	ERR 0439 0C17 KEY 012C 0C17,0C1C,0C26,0C30,0C3A,0C4C,0C56	
OCDE 0012 EBC .CIMAL CH FOR MAG T. OCE7 0003 EBC .APE. OCE9 0 FFFF DC /FFFF	C4070148 C4070149	0	0	LGRGP 043F 0C17	)
OCE9 O FFFF DC /FFFF  * OCEA 0012 SM4 EBC .C013 PID 07-CD 00.	C4070150 C4070151	U	U	LNC 043E 0C17 MTRM 043B 0C17 PDKYB 0136 0C17	Э,
OCF3 0012 EBC . IS TAPE DR O A 9. OCFC U012 EBC . TRACK DRIVE-TYPE	C4070152 C4070153 C4070154	O	0	PHKYB 0137 0C17 SCH 0131 0C17,0C34	<b>ɔ</b> !
ODOS 0006 EBC .Y OR N. ODOS 0 FFFF DC /FFFF	C4070155 C4070156	0	0	SECSU 0133 0C17, 0C7D SER 0132 0C17	
ODO9 0012 SM5 EBC .C005 PID 07-CD 00. OD12 0012 EBC .DUES THIS SYSTEM.	C407015 <b>7</b> C407015 <b>8</b>	ō	_	SIL 012F 0C17,0C20 SILSW 0130 0C17,0C2A SKINO 0135 0C17	3
OD12	C4070159 C407016 <b>0</b>	V	C	SKINO 0135 0C17 SKIN1 0134 0C17 SKI1 0C17 0C79	3
GD27 O FFFF DC /FFFF	C4070161 C4070162 C4070163	0	3	SK12	7
GD28 0012 SM6 EBC .C013 PID 07-CD 00. 0D31 0012 EBC . IS DR 1 A 9 TRK .	C4070164 C4070165	0	0	SK14	
OD3A 0012 EBC .DRIVE-TYPE Y GR N . OD43 O FFFF DC /FFFF	C4070166 C4070167	0 <b>s</b>	_	SK18 0C5D SK1A 0C24 SK1B 0C41	3
0044 00 4C000138 END1 BSC L ENDO 0046 0044 END END1	C4070)68 C4070169 C407016 C4070179		•	SK1C 0C4A 0C45 SK1E 0C46 0C40	3 s ₁
	C407016 C4070179	Ç	Ç)	SK1F 0C67 0C53 SK20 0C62 0C5C	3
		0	Ō	SK21	nje se s
		6	-	SM2	<b>3</b> ;
		•	_	SM5	J ;
		<b>7</b> ,	_	SRTRY 0441 SSUER 012E 0C17,0C1A,0C24,UC2E,0C38,0C4A,0C54 STBF 0440 0C17	า่
		១ ៉ូ	-	STBF 0440 0C17 SWB1 0C84 0C22,0C6B,CC7F SWB2 0C85 0C2C	3 :
		-	_	SWB3 OC86 OC36 SWB4 OC87 OC43,0C48,0C71	,
		-	~	SWB5 058B 0C5F, 0C64, 0C69, 0C74 S2 013A 0C17, 0C80	7
	·	• !		TERM 043D 0C17,0C67 TRFX 043C 0C17 TR7 0C82 0C41,0C5D	3
		-	•	TR9 0C83 0C46,0C62 WCC 043A 0C17	7
		: :	<b>-</b>	ZERO 0437 0C17	· ·
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			GRAM FOR THE 1800 SYSTEM	PART NO. 2242266		•				3
	CP10-DIAG MUN SKEL			PAGE 20	:	\$		E DIAGNOSTIC PROCRAM FOR THE 1800 SYSTEM	PART NO. 2242266 Page 20a	3
	CUOO	000			•	Ð	CPIO-CIAG MON S	SKELETONS SKELETON ID-08C4-07-1		3
	012C 012D 012E	DRG KEY EQU CKYN EQU SSUER EQU	*+3095 300 KEY+1	C4071001 C4071002 C4071003	E	9	CROSS REFERENCE	E LISTING		3
	012F 0130 0131	SIL EQU SILSW EQU	CKYN+1 SSUER+1 SIL+1	C4071004 C4071005 C4071006	:	0	SYMBOL VALUE BGNR 0438 BINRY 013E	REFERENCES OC17 OC17		,
	0132 0133 0134	SER EQU SECSU EQU SKINI EQU	SILSW+1 SCH+1 SER+1	C4071007 C4071008 C4071009	:	Ü	CKYN 012D ENDO 0138 END1 0C1B	0C17 0C17,0C1B 0C1D		,
	0135 0136 0137	SKINO EQU PDKYB EQU PHKYB EQU	SECSU+1 SKIN1+1 SKIN0+1	C4071010 C4071011 C4071012	:	5	ERR 0439 KEY 012C KEYIN 01DF	0C17 0C17 0C17		3
	0138 013A 013E	ENDO EQU S2 EQU BINRY EQU	PDKYB+1 PHKYB+1 ENDO+2 S2+4	C4071013 C4071014 C4071015	5	ō	LGRCP 043F LWC 043E MTRM 043B	0C17 0C17 0C17		,
	01DF 0437 0438	KEYIN EQU ZERO EQU BGNR EQU	BINRY+161 KEYIN-600 ZERO+	C4071016 C4071017 C4071018	5	0	PDKY6 0136 PHKY8 0137 SCH 0131	0C17 0C17 0C17		.,
	0439 043 <b>a</b> 0438	ERR EQU WCC EQU MTRM EQU	BGNR+ ERR+1 WCC+1	C407101 <b>9</b> C4071020 C4071021	:	ō	SECSU 0133 SER 0132 SIL 012F	0C17 0C17 0C17		,
999 200 2	043C 043D 043E	TRFX EQU TERM EQU LWC EQU	MTRM+1 TRFX+1 TERM+1	C4071022 C4071023 C4071024	១	0	SILSh 0130 SKING 0135 SKIN1 0134	0C17 0C17 0C17		3
#	0440 0441	LGROP EQU STBF EQU SKTRY EQU	LWC+1 LGROP+1 STBF+1	C4071025 C4071026 C4071027	ā ¦	Ð	SKI1 0C17 SKI2 GC18 SKI3 0C19 SKI4 0C1A			1
ele la programa più	0C17 0 0C07 0C18 0 FFFF 0C19 0 0000	SKI1 DC SKI2 DC SKI3 DC	/0007 /FFFF /0000	C4071028 C4071029 C4071030	c l	Ü	SRTRY 0441 SSUER 012E	0C17		ำ
	0C1A 0 0000 0C1B 00 4C00u13B 0C1E 0C1B	SK14 DC END1 BSC 1 END	/0000 ENDO END1	C4071031 C4071032 C4071033	∵ s	n	STBF 0440 S2 013A TERM 043D TRFX 043C	0C17 0C17 0C17		ິ : ວ₅
				C407103 C4071043	- O	ē.	HCC 043A ZERO 0437	0C17 0C17 0C17		)
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				PART NO. 2242266 PAGE 21	G	ō	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 224	
PIC-DIAG MON SK	ELETONS SKELETON ID-08C	4-08-0					PAGE  CPID-DIAG MON SKELETONS SKELETON ID-08C4-08-0	21A
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12 <b>C</b> 12D	ORG #+3095 KEY EQU 300 CKYN EQU KEY+1			C4080001 C4080002	O	0	0C50 1 0D54 DC SE007	
12E 12 <b>F</b>	SSUER EQU CKYN+1 SIL EQU SSUER+1			C4080003 C4080004	_	•	0C53 6 70D9 MDX SK00 LODE  C4080069  C4080070	
130 131	SILSW EQU SIL+1 SCH EQU SILSW+1			C4080005 C4080006	0	Û	0C56 01 67000F2D	
132 13 <b>3</b>	SER EQU SCH+1 SECSU EQU SER+1			C40800 <b>07</b> C4080G <b>08</b>	Ū	ō	0C59 0 C100 SK7 LD 1 0 BUILD DDEFS C4080074	
134 135	SKINI EQU SECSU+1 SKINO EQU SKINI+1			C4080009 C4080010	0	E	0C58 0 F102 EOR 1 2 C4060076	
136 137	PDKYB EQU SKINO+1 PHKYB EQU PDKYB+1			C4080011 C4080012	U	C	0C5D 0 7103 MDX 1 3 INCR IX 1 C4080078	
.38 .3A	ENDO EQU PHKYB+1 S2 EQU ENDO+2			C4080013 C4080014	0	Û	0C5F 0 72FF MDX 2 -1 DECR IX 2 C4080080	
3E DF 37	BINKY EQU S2+4 KEYIN EQU BINRY+16	1		C4080015 C4080016	a	O	0C61 00 4480012E BSI I SSUER SET ERROR RETURN SRC C4080082 0C63 00 4480012C BSI I KEY SET ERROR RETURN SRC C4080083	
8 9	ZERO EQU KEYIN+60 BGNR EQU ZERO+1			C408G017 C408G018 C408G019			0C65 1 0EB2	
5A 58	ERR EQU BGNR+1 WCC EQU ERR+1			C+080020 C4080021	Q	0	0C67 00 4480012D BSI I CKYN CHECK FOR Y OR N SRC C4080087	
C D	MTRM EQU WCC+1 TRFX EQU MTRM+1 TERM EQU TRFX+1			C4080022 C4080023	G	0	0C6B 00 4480012E SK10 BST T SCHED ENTRY WAS N C4080089	
	LAC EQU TERM+1			C4080024 C4080025			OC6F 1 OED4 CC SM13 ENTER 3 DIGIT ADRS SRC C4080091	
) L	LGROP EQU LWC+1 STB+ EQU LGROP+1 SRTRY EQU STBF+1			C4080026 C4060027	0	O	0C70 0 8050 DC /8050 C4080092 0C71 00 C40001DE LD L KEYIN-1 GET WD CT C4080093	
0 0008 0 0000	SKI1 DC /0008 SKI2 DC /0000	PID CD NO		C408002 <b>8</b> C408002 <b>9</b>	0	Ō	0C74 0 7062 CMP K0056 CK FOR MAX C4080095	
0 000B 00 4480012E	SKI3 DC /000B SKI4 BSI I SSUER	NO ENTRIES Set error return		C4080030 C4060031	O.s	n	0C76 00 658001DE LDX 11 KEYIN-1 SET IXING C4080097	
00 4480012C 1 0E91	BSI I KEY DC SHIO	ENTER NO DEVICES	SRC SRC	C4080032 C4080033	U s	•'	# C4080099 0C7A 0 C200 SV14 LD 0 0 C4080100	
0 8110	DC /8110			C4080034 C4080035	0	5	0C7B 00 D40001DF STO L KEYIN MOVE C4080101	
00 C400013E 01 4C180CE6 01 B4000CD5	ESC L SKE05,+-	GET ENTRY Branch if Zero		C4080036 C4080037 C4080038	6	n n	0C7F 00 040001E0 STO L KEYIN+1 SET C4080103 0C81 00 44800136 851 1 000000	
0 7027 0 1000	CMP L KOOO3 PDX SKEU6	CK MAX BRANCH IF TOO GREAT		C408C039 C4080040			0C83 0 0001 DC 1 C4080105	
01 D4000CD6 0 6303	NOP O STO L NODEV LDX 33	SAVE ENTRY		C4080041 C4080042	3		0C87 01 4C180CDD	
01 65000F2D 0 6203	LDX L1 SWB1 SKOO LDX 2 3			C4080043 C4080C44	- 1	^	0C8A 0 704F	
01 6D000CC7 01 6E000CC9	SKO STX L1 SKA1+1 STX L2 SKA2+1	SAVE IXING		C40800 <b>45</b> C40800 <b>46</b>		٦	0C8C 0 D020 STO SK13+2 C4080112	•
01 6F000CCB 01 C4000CCE	STX L3 SKA3+1 LD L ERRET	* SET ERROR RETURN		C4080047 C4080048	-		0C8E 00 040001DF STD L KEYIN MOVE DATA C4080114	
00 D4000441 01 C6000F1D	STO L SRTRY LD L2 TBL-1	# GET FORM		C4080049 C4080050	2	្	0C91 00 D40001E0 STO L KEYIN+1 C4080116 0C93 0 C204 C4080117	
0 D009 01 C7000F29	STO SK2 LD L3 TBL3-1	SET GET TBL ADRS		C4080051 C4080052 C4060053	c	Ĵ	0C94 00 D40001E1 STO L KEYIN+2 C4080118	
0 D001 00 C6000000 0 D002	STO SK21+1 SK21 LD L2 0	SET GET MSG ADRS		C4080054 C4080055		•	0C96 00 C400043D LD L TERM GET TERM C4080120 0C98 00 D40001E2 STO L KEYIN+3 SET C4080121	:
00 4480012C 1 0071	STO SK1 BSI I KEY SK1 DC SM1	SEI Print	SRC	C4080056		•	0C9A 00 44860136 BSI I PDKYB CONVERT ENTRIES SRC C4080123	•
0 8120 01 4E800CE8	SK2 DC	CHCCH DATA		C4980038 C4980059	•	•	OC9D O 0437 DC ZERO C4080124 OC9E OO C400013E LD L BINRY GET DATA C4080125 OCAO O BO31 CMP KO089 CK 500 OU C4080126	•
D100 D 7101	SK2U STO 1 0 MDX 1 1	CHECK DATA Save Incr IX 1	SPS	C4080061	92	Î	OCA1 0 7002 CMP K0089 CK FUR OK C4080127  OCA2 0 1000 MDX SK11 CONTINUE CKING C4080127	7
72FF 70E3	MDX 2 -1 MOX SKO	DECR IX 2 LOCP		C4080062 C4G80063	-	•	OCA3 G 7007 MDX SK13 ENTRY GK C4080129 OCA4 D B025 SK11 CH2	1
0 73FF 0 7004	SK5 MDX 3 -1 MDX SK4	DECR IX 3 CHECK FOR NEXT DR		C4030064 C4080065 C4080066	:		OCA5 0 7002 MDX SK12 CONTINUE CKING C4080131 OCA6 0 703C MDY SK12 CONTINUE CKING C4080132	•
0 7006 00 44800132	MDX SK6 SKE 06 B \$1 I SFR	ALL DRS COMPLETE NO DRIVE GREATER 3	SRC	C4080067 C4080068	•		OCA7 0 7003 MDX SK13 ENTRY DK C4080133 OCA8 0 B02B SK12 CMP K0202	3
04N0V66			=			_	OCA9 0 7036 MDX SKE03 ERROR C4080135 C4080136	3
04NOV66 415233				PRCG ID 08C4-0 PAGE 21	5	•	DATE 04NOV66 EC NO. 415233 PRUG ID 08C4-	, 1

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CPIO-DIAG MUN SKELETONS SKEL	ETUN ID-08C4-08-0	PAGE 22	0 E	CPIO-DIAG MON SKELETONS SKELETON ID-08C4-08-0	•
OCAA 0 1000 NOP OCAB 0 1003 SK13 SLA OCAC 00 67000000 LDX	0 3 MUL BY 8 L3 0	C4080137 C4080138 C4080139	0 0		
OCAE 01 D7000F37 STD OCBO 0 7301 MDX OCB1 0 7206 MDX OCB2 C 71FA MDX	L3 SW811 3 1 2 6 1 -6	C4080140 C4080141 C4080142	0 0	0045 0012 EBC . NUMBER OF DEVICE. C4080207 004E 000A EBC .S WAS 0000. C4080208 0053 0 FFFF DC /FFFF C4080209	
CB3 0 70C6 MDX CB4 0 6108 DUT LDX CB5 01 C5000F37 SK15 LD	SK14 1 8 SET IXING L1 SWB11	C4080143 C4080144 C4080145 C4080146	0 0	OD54 O012 SE007 EBC .E009 PID 08-CD 00. C4080211 OD5D O012 EBC .NUMBER OF DEVICE. C4080212 OD66 O012 EBC .S WAS GREATER THAN. C4080213	:
OCB7 01 D5000F2F STO OCB9 0 71FF MDX OCBA 0 70FA MDX	11 ShB3 1-1 DECR IX 1 SK15	C4080147 C4080148	0   0	0D70 0 FFFF DC /FFFF C4080215	
CBB 01 65800C17 LDX CBD 01 66800C18 LDX CBF 01 67800C19 LDX	11 SKI1 SET IXING 12 SKI2 13 SKI3	C4080149 C4080150 C4080151 C4080152	0   2	OD7A O012 SM1 EBC .CO01 PID 08-CD 00. C4080217 OD7A O012 EBC .ENTER 2 DIGIT DE. C4080218 OD83 O012 EBC .CIMAL INTR LVL FUR. C4080219	•
CC1 00 44800133 BS1 CC3 1 0F2D DC CC4 00 4C00013A BSC	I SECSU SET UP CARD SWB1 L S2 EXIT	SRC C4080153 C4080154 C4080155	υ (	CD91 0 FFFF DC /FFFF C4080221 C4080221 C4080222	•
CC6 00 65000000 SKA1 LDX CC8 00 66000000 SKA2 LDX CCA 00 67000000 SKA3 LDX	L1 0 RESTORE IXING L2 0 * L3 0 *	C4080156 C4080157 C4080158	0 0	0D9B	,
CCE 1 OCC6 ERRET DC CCF 0 0031 K0056 DC	L SKO ERRCR RE-ENTRY SKA1 ERRGR RETURN 49 CONSTANTS	C4080159 C408016 <b>0</b> C4080161	0 1 5	ODB2 O FFFF DC · /FFF C4080227 C4080227 C4080228	:
CD1 0 0008 K0008 DC CD1 0 0657 K0657 DC CD2 0 0059 K0089 DC CD3 0 006F K0111 DC	8 /0657 89 111	C4080162 C4080163 C4080164	0 -	ODBC G012 EBC • ENTER 1 DIGIT DE . C4080230 ODC5 O012 EBC • CIMAL CH FOR 1ST 2. C4080231	
D4 0 00CA K0202 DC D5 0 0003 K0003 DC D6 0 0000 NDDEV DC	202 3	C4080165 C4080166 C4080167	0.	ODD1 OD12 SM4 EBC -COU1 PID 08-CD OO. C4080235	
CD7 00 44800132 SKE 00 BSI CD9 1 0CF8 DC CDA 00 44800132 SKE 01 BSI	I SER TOO MANY ADRSS SEOO1	C4080168 SRC C4080169 C4080170 SRC C4080171	~ ·	ODDA 0012 EBC • ENTER 2 DIGIT DE• C4080236 ODE3 0012 EBC • CIMAL INTR LVL FOR• C4060237 ODEC 0009 EBC • 2ND 2310• C4080238	]
CDC 1 OCF8 DC CDD 00 44800132 SKE02 BS1 CDF 1 OCF8 DC	SEOO1 I SER FLD WAS ZERO SEOO1	C4080172 SRC C4080173	9 9	ODF1 0 FFFF DC /FFFF C4080239  * C4080240 ODF2 0012 SM5 EBC .C002 P10 08-CD 00. (408024)	]
CEO 00 44800132 SKE 03 BSI CE2 1 ODOF DC CE3 00 44800132 SKE 04 BSI	I SER ADRS ICC GREAT SE004	C4080174 SRC C4080175 C4080176 SRC C4080177	0 5	ODFB 0012 EBC • ENTER 2 DIGIT DE• C4080242  0E04 0012 EBC • CIMAL ILSW BIT FOR• C4080243  0E0D 0009 EBC • 2ND 2310• C4080244	
CE5 1 0D23 DC CE6 00 4480U132 SKE 05 BSI CE8 1 0D3C DC	SE005 I SER NUMBER DRS = 0 SE006	C4080178 SRC C4080179 C4080180	7 5	0E12 0 FFFF DC /FFFF C4080245 * C4080245 0E13 0012 SM6 EBC .C003 PID 08-CD 00. C4080247 0E1C 0012 EBC .FNTER 1 DIGIT DE	3
CE9 1 OCFC CK DC CEA 1 OCFO DC CEB 1 OCF4 DC	CH ILSW IL	C4080181 C4080182 C4080183	5   ^	0E25 0012 EBC .CIMAL CH FDR 2ND 2. C4980249 0E2E 0003 .EBC310. ● C4980250	1
DEE 01 4C000C47 BSC DFO 00 44800130 ILSW BSI		SRC C4080184 C4080185 SRC C4080186	<u>c</u>   -,	0E31 U012 SM7 EBC .C001 PID 08-CD 00. C4980253	3
CF4 00 4480012F 1L BS1	L SK20 I SIL CK INTR LVL L SK20	C4080187 SRC C4080188 C4080189	C	0E43 0012 EBC • CIMAL INTR LVL FCR• C4080254 0E4C 0009 EBC • 3RD 2310• C4080256 0E51 0 FFFF DC /FFFF C4080257	1
F8	.E007 PID 08-CD 00. . ENTRY TOO LARGE . .OK 0000.	C4080191 C4080191 C4080192 C4080193	€ •• ••	0E52 0012 SM8 EBC .CU02 PID 08-CD 00. C4080258 0E5B 0012 EBC . ENTER 2 DIGIT DE. C4080260	7
OF 0012 SE004 EBC	/FFFF •E00A PID 08-CD 00•	C4080194 C4080195 C4080196	•	0E64 0012 EBC .CIMAL ILSW BIT FOR. C4080261 0E6D 0009 EBC .3RD 2310. C4080262 0E72 0 FFFF DC /FFFF C4080263	1
018 0012 EBC 021 0001 EBC 022 0 FFFF DC	<ul><li>ADRS IS TOO GREA.</li><li>/FFFF</li></ul>	C4080197 C4080198 C4080199	• •	0E73 0012 SM9 EBC .C003 PID 08-CD 00. C4080265 0E7C 0012 EBC . ENTER 1 DIGIT DE. C4080266 0E85 0012 EBC .CIMAL CH. FDR 3RD 2. C4080267	1
23 0012 SEU05 EBC	.EOOB PID OB-CD OO ADRS WAS BETHEEN.	C408020 <b>0</b> C408020 <b>1</b> C4080202	: 1	OESE 0003 EBC .310. C4080268 OE90 O FFFF DC /FFFF C4080269	3
35 000B EBC 38 0 FFFF DC	. 90 AND 110. /FFFF	C40802 <b>03</b> C40802 <b>04</b>	• 1	CE91 0012 SM10 EBC .C004 PID 08-CD 00. C4080270 CE9A 0012 EBC .ENTER NUMBER DF . C4080272	3
TE 04NOV66 NO. 415233		PROG ID 08C4-0 PAGE 22	: 1	DATE 04N0V66 PROG 1D 08C4-0 EC NO. 415233	3

IBM MAINTENANCE	DIAGNOSTIC PR	OGRAM FOR THE 1800 SYSTEM			*		
		LE TON ID-08C4-08-0	PART NO. 2242266 Page 23		:	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 224226	16
. , <b>.</b>	JNE			O		PAGE 23 DPIC-DIAG MON SKELETONS SKELETON ID-08C4-08-0	
OEA3 0012 OEAC 0009	EBC	.23105 ON SYSTEM-FR.	C40802 <b>73</b>	U	ē		
OEBI O FFFF	EBC DC	OH 1 TO 3. /FFFF	C4080273 C4080274 C4080275	0	Ū	CROSS REFERENCE LISTING	
OEB2 0012 OEBB 0012	SM12 EBC EBC	.COO6 PID 08-CD 00. • ARE ADRS REFEREN.	C4080276 C4080277	0	ū	SYMBOL VALUE REFERENCES BGNR 0436 OC17	
0EC4 0012 0ECD 000C	EBC EBC	.CE CHANGES DESIREDTYPE Y OR N.	C40802 <b>78</b> C40802 <b>79</b>	•		BINRY 013E 0C17,0C20,0C85,0C9E CH 0CEC 0CE9	
OED3 O FFFF	DC *	/FFFF	C4080280 C4080281	0	0	CK OCE9 OC45 CKYN 012D OC17,0C67 ENDO 0138 OC17,0C60	
0ED4 0012 0EDD 0012 0cE6 0012	SM13 EBC EBC	.COO7 PID 08-CD 00. • ENTER 1 DIGIT DE.	C4080282 C4080283	O	ō	ENDO 0138 UC17,0F40 END1 0F40 0F42 ERR 0439 OC17	
0cE6 0012 0EEF 0012 0EF8 0012	EBC EBC	•CIMAL FLD NUMBER T. •O BE CHANGED FOLID.	C4080284 C4080285 C4080286	C	z	ERRET OCCE OC34 1L OCF4 OCEB	
OFO1 0012 OFOA 0012	EBC EBC EBC	. HEDSBY 3 DIGIT DECIMAL ADRS DESIRED	C4080287 C4080288			ILSW OCFO OCEA KEY 012C OC17,0C1C,0C41,0C63,0C6D	
OF13 0012 OF1C 0002	EBC EBC	-1-8 ENTRIES IN FOLLOWING FORMATSO CDD.	C40802 <b>89</b> C408029 <b>0</b>	0		KCTIN 01DF 0C17,0C71,0C76,QC78,0C78,0C7F,0C8E,0C91,0C94,0C98 KOOO3 0CD5 0C24	
OF1D 0 FFFF OF1E 0 8110	DC *	/FFFF	C4080291 C4080292	G	-	K0008	
0F1F 0 8120 0F20 0 8120	TBL DC	/8110 /8120	C408 <b>0293</b> C40802 <b>94</b> C40802 <b>95</b>	7	_	KUO39 OCD2 OCAO KO111 OCD3 OCA4 KO2O2 OCD4 OCA8	
OF21 1 ODB3	DC * TBL1 DC	/8120	C4080295 C4080296 C4080297	_	•	K0657 OCD1 LGROP 043F OC17	
OF22 1 0D92 OF23 1 0D71	DC DC	SM3 SM2 SM1	C4080298 C4080299	r,		LWC 043E 0C17 MTRM 043B 0C17	
0F24 1 0E13	* TBL4 DC	SM6	C408 <b>0300</b> C408 <b>0301</b>	j.	٥	NODEV 0CD6 0C28,0C51 OUT UCB4 0C6A PDKYB 0136 0C17-0C81-0C9A	
OF25 1 ODF2 OF26 1 ODD1	DC DC	SM5 SM4	C40803 <b>02</b> C40803 <b>03</b> C40803 <b>04</b>	O s	C	PDKYB 0136 0C17,0C81,0C9A PHKYB 0137 0C17 SCH 0131 0C17,0CEC	
OF27 1 0E73 OF28 1 0E52	TBL5 DC DC	SM9	C408030 <b>5</b> C4080306		- C	SECSU 0133 0C17, OCC1 SER 0132 0C17, OCC4, OCD7, OCDA, GCDD, OCE0, OCE3, OCE6	
OF29 1 OE31	DC *	SM8 SM7	C4080 <b>307</b> C4080 <b>308</b>	Ō	Û	SEOO4 ODOF OLE2	
OF2A 1 OF26	* TBL3 DC	TBL5-1	C4080309 C4080310	n	c	SE005 0D23 0CE5 SE006 0D3C 0CE8 SE007 0D54 0C50	
OF28 1 OF23 OF2C 1 OF20	DC DC	T8L4-1 T8L1-1	C4080311 C4080312 C4080313		<b>-</b> ,	SEUG7 0D54 0C50 SIL 012F 0C17, 0CF4 SILSW 0130 0C17, 0CF0	
OF2D 0 0000 OF2E 0 0000	SW81 DC SW82 DC	0	C4080314 C4080315	1		SKA1 0CC6 0C2E, OCCE SKA2 0CC8 0C30	
0F2F 0 0000 0F30 0 0000	SWB3 DC SWB4 DC	0	C4080316 C4080317	^	_	SKA3 OCCA OC32 SKE00 OCD7 OC74	
0F31 0 0000 0F32 0 0000	SW85 DC Smb6 DC	0	C4080318 C4080319	7	•	SKEGI OCDA OCBA SKEGZ OCDD OCB7	
GF33 0 0000 GF34 0 0000 UF35 0 0000	SWB7 DC Swb8 DC	0 0	C4060320 C4080321	~ <b> </b>		SKE03	
DF36 0 0000 DF37 0 0000	SWB9 DC SWB10 DC	0	C4080322 C4080323 C4080324			SKE06	
DF38 0 0000 DF39 0 0008	SWB11 DC SWB12 DC SWB13 DC	0 /0000 /0008	C4080325 C4080326	?	-	SKIN1 0134 0C17 CBB	
0F3A 0 0010 0F3B 0 0018	SWB14 DC SWB15 DC	/0010 /0018	C4080327 C4080328	:	-	SKI2	
0F3C U 0638 0F3D G 0640 0F3E U 0648	SWB16 DC SWB17 DC	/0638 /0640	C4080329 C4080330 C40803 <b>31</b>		0	SK14	
F3F 0 0650 F40 00 4C000138	SWB19 DC SWB19 DC END1 BSC L	/0648 /0650	C4080332 C4080333			SK1 0C43 0C40 SK10 0C6B 0C69	
0F42 0F40	END END	ENDO END1	C4080334 C408033 C4080344	:	•	SK11 OCA4 OCA1 SK12 OCA8 OCA5	
				÷	•	SK13 UCAB OC8C,OCA3,OCA7 SK14 GC7A OCB3 SK15 OCB5 OCBA	
				•	9	SK2 0C44 0C3A	
ATE 04NOV66					•	SK20 0C47 0CEE, 0CF2, 0CF6 SK21 0C3E 0C3D	
C NO. 415233			PROG ID 08C4-0 Page 23	•	3	DATE 04NOV66	
				•	8	EC NO. 415233 PROG ID 08C4-0 PAGE 23A	

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IBM MAINTENANCE DIAGNO	TIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 24	0 3	IBM MAINTENANCE	DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	DADT NO. OD. OD.	5
CPIO-DIAG MON SKELETON	SKELETON 10-08C4-08-0	24	:   :		KELETONS SKELETON ID-08C4-08-1	PART NO. 2742266 Page 24a	:
SK4 0C51 0C4C SK5 0C48			3 3				1
SK6 0C54 0C4D SK7 0C59 0C60	-			0000 012C 012D	ORG ++3095 KEY EQU 300 CKYN EQU KEY+1	C4081001 C4081002 C4081003	2
SM1 0D71 0C43, SM10 0E91 0C1E SM12 0EB2 0C65 SM13 0ED4 0C6F	IF 2.3		: :	012E 012F 0130	SSUER EQU CKYN+1 SIL EQU SSUER+1 SILSW EQU SIL+1	C4081004 C4081005 C4081006	1
SM2				0131 0132 0133	SCH EQU SILSW+1 SER EQU SCH+1 SECSU EQU SER+1	C4081007 C4081008 C4081009	3
SM5 ODF2 OF25 SM6 OE13 OF24 SM7 OE31 OF29			0 0	0134 0135 0136 0137	SKIN1 EQU SECSU+1 SKIN0 EQU SKIN1+1 PDKYB EQU SKIN0+1	C4081010 C4081011 C4081012	נ
SM8 0E52 0F28 SM9 0E73 0F27 SRTRY 0441 0C36	,			0138 013A 013E	PHKYB EQU PDKYB+1 Endo equ Phkyb+1 Sz equ endo+2	C4081013 C4081014 C4081015	כ
SSUER 012E 0C17, STBF 0440 0C17	C1A,0C61,0C6B C54,0C56,0CC3		0 0 0 0	01DF 0437 0438	BINRY EQU S2+4 KEYIN EQU BINRY+161 ZERO EQU KEYIN+600	C4081016 C4081017 C4081018	3
SWB10 OF36 SWB11 OF37 OCAE, SWB12 OF38			2 0	0439 043A 043B	BGNR EQU ZERO+1 ERR EQU BGNR+1 HCC EQU ERR+1 MTRM EQU HCC+1	C4081019 C4081020 C4081021	)
SWB13 0F39 SWB14 0F3A SWB15 0F3B			a   c	043C 043D 043E	TRFX EQU MTRM+1 Term equ trfx+1	C4081022 C4681023 C4081024	)
SWB16 OF3C SWB17 OF3D SWB18 OF3E			6 0	043F 0440 0441	LWC EQU TERM+1 LGROP EQU LWC+1 STBF EQU LGROP+1 SRIRY EQU STBF+1	C4081025 C4081026 C4081027	)
SWB19 OF3F SWB2 OF2E SWB3 OF2F OCB7			c. (	0C17 0 0008 0C18 0 FFFF 0C19 0 0C00	SKI1 DC /0008 SKI2 DC /FFFF SKI3 DC 0	C4061028 C4081029 C4081030	)
SWB4 0F30 SWB5 0F31 SWB6 0F32 SWB7 0F33			9 0	0C1A 0 0000 0C1B 00 4C000139 0C1E 0C1B	SKI4 DC O	C4081031 C4081032 C4081033	7
SWB8 0F34 SWB9 0F35			0 0			C408103 C4081043	)
S2 013A 0C17, C TBL 0F1E 0C3B TBL1 0F21 0F2C TBL3 0F2A 0C3B			3 0				7
TBL4 0F24 0F2B TBL5 0F27 0F2A	70,0096		0 0				)
TRFX 043C 0C17 WCC 043A 0C17	84,0C9D		g 0				3
		9	g o				,
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			: 0				1
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CPIO-DIAG MON SKELETONS SKELETON ID-08C4-08-1  CRUSS REFERENCE LISTING	PART NO. 2242266 Page 25		TOW MATNITURANCE STANDARDS CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CON
		1 1	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM PART NO. 2242266
FRINS DESCRIPTION LANGUAGE			CPIO-DIAG MON SKELETONS SKELETON ID 08C4-09-0
CKU33 KEFEKENLE LISIING		1 1	<b>1</b>
SYMBOL VALUE REFERENCES BGNR 0438 OC17		1 1	0000     0RG     *+3095     C4090001       012C     KEY     EQU     300     C4090002       012D     CKYN     EQU     KEY+1     C4090003
BINRY 013E GC17 CKYN 012D GC17		1 1	012E SSUER EQU CKYN+1 C4090004 012F SIL EQU SSUER+1 CA090005
ENDO 0138 0C17, OC1B END1 0C15 0C1D ERR 0439 0C17		: 3	0130
KEY 012C 0C17 KEYIN 01DF 0C17 LGROP 043F 0C17		o <b>3</b>	0133 SECSU EQU SER+1 C4090009 0134 SKINI EQU SECSU+1 C4090010
LWC 043E GC17 MTRM 043B GC17		0 :	0136 PDKYB EQU SKINO+1 C4090012 0137 PHKYB EQU PDKYB+1 C4090013
PDKYB 0136 0C17 PHKYB 0137 0C17 SCH 0131 0C17		o :	0138 ENDO EQU PHKYB+1 C4090014 013A S2 EQU ENDO+2 C4090015 013E BINRY EQU S2+4 C4090016
SECSU 0133 0C17 SER 0132 0C17 SIL 012F 0C17		0 -	01DF KEYIN EQU BINRY+161 C4090017 0437 ZERO EQU KEYIN+600 C4090018 0438 BGNR EQU ZERO+1 C4090019
SILSW 0130 0C17 SKINO 0135 0C17		5 -	0439 ERR EQU BGNR+1 C4090020 3 043A NCC EQU ERR+1 C4090021
SKINI 0134 OC17 SKII 0C17 SKI2 OC18		ľ	043C TRFX EQU MTRM+1 C4090022 3 043U TERM EQU TRFX+1 C4090024
SKI3 0C19 SKI4 0C1A SRTRY 0441		0   0	043E
SSUER 012E 0C17 STBF 0440 0C17 S2 013A 0C17		0   0	0C17 0 U009 SKI1 DC /0009 C4090029
TERM 043D 0C17 TRFX 043C 0C17		0.	0C19 0 0006
WCC 043A 0C17 ZERO 0437 0C17		0   6	OCIE 1 0E91 DC SM10 C4090034 C4090035
		0 -	0C20 00 C400013E LD L BINRY GET ENTRY C4090036 0C22 01 4C180CE6 BSC L SKE05,+- BRANCH IF ZERO C4090038
		e ====================================	0C24 01 84000CD5
			0C28 01 D4000CD6 STO L NODEY SAVE ENTRY C4090042 0C2A 0 6303 LDX 3 3 C4090043
			0C2D 0 6203 SKUO LDX 2 3 C4090045 0C2E 01 6D000CC7 SKU STX L1 SKA1+1 SAVE IXING C4090046
ì		5 6	0C30 01 6E000CC9
		2 -	0C36 00 D4000441 STO L SRTRY # C4090050 0C38 01 C6000F1D LD L2 TBL-1 GET FORM C4090051
			0C3B 01 C7000F29 LD L3 TBL3-1 GET TBL ADRS C4090053 0C3D 0 D001 STD SK21+1 SET C4090054
			0C40 0 D002 STO SK1 SET C4090056 0C41 00 4480012C BSI I KEY PRINT SRC C4090057
		•	0C43 1 0D71 SK1 DC SM1 C4090058 0C44 0 8120 SK2 DC /8120 C4090059 0C45 01 4E800CE8 BSC I2 CK-1 CHECK DATA SRC C4090060
		2 3	0C47 0 D100 SK20 STO 1 0 SAVE C4090061 0C48 0 7101 MDX 1 1 INCR IX 1 C4090062
		- 8	0C4A 0 70E3 MDX SKO LOOP C4090064 0C4B 0 73FF SK5 MDX 3 -1 DECR IX 3 C4090065
,		÷   8	0C4C 0 7004 MDX SK4 CHECK FOR NEXT DR C4090066 0C4D 0 7006 MDX SK6 ALL DRS COMPLETE C4090067 0C4E 00 44800132 SKE06 BSI I SER BRANCH IF ERROR SRC C4090068
DATE 04NOV66 EC NO. 415233	PRDG ID 08C4-0 PAGE 25	g .	CATE 04NDV65 PROG ID 08C4-0

IO-DIAG MUN SKEL	ETONS	SKELET	ON ID-08C4-	09-0			:	1	CPIO-DIAG MON SKE	LETONS	SKELET	UN ID-08C4-09	9-0		PAGE	26 <b>A</b>
50 1 UD54 51 01 74FF0CD6	SK4	DC	SE007	DECR NO DE DIFERE		C4090069	:	1	OCA8 O BOZA	SK12		K0202		•	C4090137	
53 0 70D9		MDX	NODEV1 SKUO	DECR NO OF DVICES		C409007 <b>0</b> C409007 <b>1</b>			OCA9 0 7036 OCAA 0 1000		MDX NOP	SKEO3 O	ERROR		C4090138 C4090139	
54 01 65000F2D 56 01 67000F2D	SK6	LDX L	l SWBL 3 SWBL	SET IXING		C4090072 C4090073	Î	1	OCAB 0 1003 OCAC 00 67000000	SK13		3	MUL BY 8		C4090140	
6 0 6203 69 0 C100	SK7	LDX .	2 3	011110 00000		C4090074			OCAE 01 D7000F37			3 SWB11			C4090141 C4090142	
A 0 F101	2K I		1 0 1 1	BUILD DDEFS		C409007 <b>5</b> C40900 <b>76</b>	Î	1	0CB0 0 7301 0CB1 0 7206			3 1 2 6			C4090143 C4090144	
8 0 F102 C 0 D300			1 2 3 0	SAVE		C4090077 C4090078	_	1	OCB2 0 71FA		MDX	1 -6			C4090145	
D 0 7103		MD X	1 3	INCR IX 1		C409007 <b>9</b>	-	:	0CB3 0 70C6 CCB4 0 6108	OUT	MDX LDX	SK14 1 8	SET IXING		C4090146 C4090147	
E 0 7301 F 0 72FF			3 1 2 -1	INCR IX 3 DECR IX 2		C409008 <b>0</b> C4090081	_	_	OCB5 01 C5000F37	SK15	LD L	1 SWB11			C4090148	
0 0 70F8		XCM	SK7	LOOP		C4090082	-	; 3	OCB7 01 D5000F2F OCB9 0 71FF			1 SWB3 1 -1	DECR IX 1		C409014 <b>9</b> C4090150	
1 00 4480012E 3 00 4480012C		BSI I BSI I	SSUER KEY	SET ERROR RETURN ADRS CHANGE WANTED	SRC SRC	C4090083 C4090084	•	_	OCBA O 70FA OCBB 01 65800C17		MDX	SK15			C4090151	
5 1 OEB2 6 0 8000		DC DC	SM12 /8000			C4090085	•	-	OCBD 01 66800C18			l SKI1 2 SKI2	SET IXING		C4090152 C4090153	
7 00 4480012D		BSI 1	CKYN	CHECK FOR Y OR N	SRC	C4090086 C409008 <b>7</b>	:	_	OCBF 01 678G0C19 OCC1 00 44800133			3 SKI3 SECSU	SET UP CARD	SRC	C4090154 C4090155	
9 0 7001 A 0 7049		MDX MDX	SK10 Out	ENTRY WAS Y ENTRY WAS N		C409008 <b>8</b> C409008 <b>9</b>	•	_	0CC3 1 0F2D		DC	SWB1		3//	C4090156	
	•					C409009 <b>0</b>	:	ō	0CC4 00 4C00013A 0CC6 00 65000000	SKA 1			EXIT RESTORE IXING		C409015 <b>7</b> C409015 <b>8</b>	
00 4480012E 00 4480012C	SK1 0	BSI I	SSUER KEY	SET ERRCR RETURN ENTER 3 DIGIT ADRS	SRC SRC	C4090091 C4090092	•		00000000	SKA2	LDX L	2 0	*		C4090159	
1 0ED4		DC	SM13		3.1.0	C4090093	•	Ð	OCCA 00 67000000 OCCC 01 4C000C2E	SKA3	BSC L	3 0 Sko	# ERROR RE-ENTRY		C409016 <b>0</b> C409016 <b>1</b>	
0 8050 00 C40001DE		FD F	/8050 KEYIN-1	GET WD CT		C409009 <b>4</b> C40900 <b>95</b>			0CCE 1 0CC6 0CCF 0 0031	ERRET KOO56			ERROR RETURN		C4090162	
0 B05B 0 7062		CMP MDX	K0056 SKE <b>00</b>	CK FOR MAX		C409 <b>0096</b>	Û	0	OCDO O 0008	K0008	DC	8	CONSTANTS		C4090163 C4090164	
0 1000		NOP	0			C409009 <b>7</b> C409009 <b>8</b>			0CD1 0 0657 0CD2 0 0059	K0657 K0089		/0657 89			C409016 <b>5</b> C409016 <b>6</b>	
00 658001DE 00 660001DF			L KEYIN-1 Keyin	SET IXING		C409009 <b>9</b> C409010 <b>0</b>	C s	0	OCD3 O OOCA	K0202	DC	202			C4090167	
					•	C4090101			0CD4 0 0G6F 0CD5 0 0003	K0111 K0003		111 3			C4090168 C409016 <b>9</b>	
0 C200 00 D40001DF	SK14	LD 2 STO L	KEYIN Keyin	GET ENTRY Move		C4090102 C4090103	Ō	7	OCD6 0 0000 OCD7 00 44800132	NODEV SKE 00	DC	0	700 HANK ADOCC		C4090170	
00 C400043D 00 D40001E0		LD L	TERM	GET TERM		C4090104			OCD9 1 OCF8		DC	SER Seool	TOO MANY ADRSS	SRC	C4090171 C4090172	
00 44800136			KEYIN+1 PDKYB	SET Convert data	SRC	C4090105 C4090106	0	$\sim$	OCDA 00 44800132 OCDC 1 OCF8	SKE 01	BSI I DC	SER SEOOl	FIELD TCO GREAT	SRC	C4090173 C4090174	
0 0001 0 0437		DC DC	1 Zero			C4090107 C4090108	_	_	OCDD 00 44800132	SKE 02	BSI I	SER	FLD WAS ZERO	SRC	C4090175	
00 C400013E		LD L	BINRY	GET DATA		C4090109	S	_	OCDF 1 OCF8 OCEO OO 44800132	SKE 03	DC BSI I	SE001 SER	ADRS TCO GREAT	SRC	C4090176 C4090177	
01 4C180CDD 0 B046		BSC L CMP	SKE02 •+- K0008	BR 1F ZERO CK FOR MAX		C4090110 C4090111	_	-	OCE2 1 ODUF OCE3 00 44800132	SKE 04	DC	SE004			C4090178	
0 704F 0 1000		MDX NOP	SKEO1	ERROR		C4090112		,	OCE5 1 OD23		DC	SE 005	ILLEGAL ADRS	SRC	C4U90179 C4U90180	
0 D020		STO	SK13+2			C4090113 C4090114	3		0CE6 00 44800132 0CE8 1 0D3C	SKE 05	BSI I DC	SER SE006	NO DR = 0	SRC		
0 C2O2	*	LD 2	, ,	GET ENTRY		C4090115 C4090116	***		OCE9 1 OCEC	CK	DC	CH			C4090183	
00 D40001DF		STO L	KEYIN	MOVE DATA		C4090117	3	-	OCEA 1 OCFO OCEB 1 OCF4		DC DC	ILSW IL			C4090184 C4090185	
0 C203 00 D40U01E0		LD 2 STO L	KEYIN+l			C4090118 C4090119			OCEC 00 44800131 OCEE 01 4C000C47	СН	BSI I	SCH	CK CHANNEL	SRC	C4090186	
0 C204 00 D40001E1		LD a	2.4			C4090120	2	_	OCFO 00 44800130	ILSW		SK20 Silsh	CK ILSW BIT	SRC	C409018 <b>7</b> C409018 <b>8</b>	
	•		KEYIN+2			C4090121 C4090122			OCF2 01 4C00GC47 OCF4 00 4480012F	IL	BSI I		CK INTR LVL	SPC	C4090189 C4090190	
00 C40D043D 00 D40D01E2			TERM KEYIN+3	GET TERM SET		C4090123 C4090124	-	Ç	0CF6 01 4C0U0C47			SK20	CK INIK EVE	3.4.0	C4090191	
00 44800136		BSI I	PDKYB	CONVERT ENTRIES	SRC	C4090125			0CF8 U012	* \$E001	EBC	.E007 P1D	09-CD 00.		C4090192 C4090193	
0 0003 0 0437		DC DC	3 Zero			C4090126 C409012 <b>7</b>	*	2	0D01 0012		EBC	. ENTRY TO			C4090194	
00 C400013E 0 8031		LD L	BINRY	GET DATA		C4090128			ODOA 0007 ODOE O FFFF		EBC DC	.OR OCOO. /ffff			C4090195 C4090196	
0 7002		CMP MDX	K0089 SK11	CK FOR OK CONTINUE CKING		C4090129 C4090130	2	•	ODOF 0012	# SE004	FRC	-EOOA PID	N9CD		C4090197 C40901 98	
0 1000 0 7007		MOX	0 SK13	ENTRY OK		C4090131 C4090132	_	_	OD18 0012	JE 304	EBC	. ADRS IS			C4090199	
0 B02F	SK11	CHP	K0111	CK ADRS		C4090133	5	3	0D21 0001 0D22 0 FFFF		EBC DC	.T. /FFFF			C4090200 C4090201	
0 7002 0 703C		MDX MDX	SK12 SKE04	CONTINUE CKING ERROR		C4090134 C4090135	_	_		\$ \$5005					C4090202	
0 7003		HDX	SK13	ENTRY OK		C4090136		9	0D23 0012 0D2C 0012	SE005	EBC EBC	-EOOB PID			C4090203 C40902 <b>04</b>	٥
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IBM MAINTENANCE CLAGNOSTIC PRUGRAM FOR THE 1800 SYSTEM	PART ND. 2242266 Page 27	0:	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	) Part no. 2242266
CPIU-CIAG MUN SKELETONS SKELETON 10-0864-09-0	•	o   a	CPIO-DIAG MON SKELETONS SKELETON ID-U8C4-09-0	PAGE 27A 3
OD35	C4090205 C4090206	0 0	0E91 0012 SM10 EBC .C004 PID 09-CD 00.	C4090273
# 0D3C 0012 SE006 EBC .E00B PID 09-CD 00. GD45 0012 EBC .NUMBER OF DEVICE. OD4E 000A EBC .S WAS 0000. OD53 0 FFFF DC /FFFF	C4090207 C4090208 C4090209 C4090210 C4090211	J C	OE9A 0012 EBC . ENTER NUMBER UF . OEA3 0012 EBC .2310S ON SYSTEM-FR. OEAC 0009 EBC .OM 1 TO 3. OEB1 0 FFFF DC /FFFF	C4090274 C4090275 C4090276 C4090277 C4090278
0054 0012 SEGOT EBC .E009 PID 09-CD 00. 0050 0012 EBC .NUMBER OF DEVICE. 0066 0012 EBC .S WAS GREATER THAN. 006F 0002 EBC .3.	C4090211 C4090213 C4090214 C4090215 C4090216	0   <b>0</b> 0   0	0EB2       U012       SM12       EBC       .C006       P1D       09-CD       00.         0EBB       0012       EBC       . ARE ADRS REFEREN.         0EC4       0012       EBC       .CE CHANGES DESIRED.         0ECD       000C       EBC      TYPE Y OR N.         0ED3       0       FFFF       DC       /FFFF	C4090279 C4090280 C4090281 C4090282 C4090283
OD70 0 FFFF         DC         /FFFF           OD71 0012 SM1 EBC .C001 PID U9-CD U0.         OD7A 0012 EBC .ENTER 2 DIGIT DE.           GD83 0012 EBC .CIMAL INTR LVL FGR.	C409021 <b>7</b> C409021 <b>8</b> C409021 <b>9</b> C409022 <b>0</b> C409022 <b>1</b>	(1 - (1)	*  OED4	C4090284 C4090285 C4090286 C4090287 C4090288
ODSC 0009 EBC .1ST 2310. OD91 0 FFFF DC /FFFF  OD92 0G12 SM2 EBC .C002 PID 09-CD 00. OD98 0012 EBC .ENTER 2 CIGIT DE. ODA4 0012 EBC .CIMAL ILSW BIT FGR.	C4090222 C4090223 C4090224 C4090225 C4090226 C4090227	o -	OFO1 OO12 EBC .IMAL ADRS DESIRED OFOA OO12 EBC .1-8 ENTRIES IN FCL. OF13 OO12 EBC .LOWING FORMAT'SD CO. OF1C OO02 EBC .D OF1D O FFFF DC /FFFF	C4090289 C4090290 C4090291 C4090292 C4090293 C4090294
ODAD 0009 EBC . 1ST 2310. ODB2 0 FFFF DC /FFFF	C409022 <b>8</b> C409022 <b>9</b> C409023 <b>0</b>	0   1	* OF1E 0 8110 TBL DC /8110 OF1F 0 8120 DC /8120 OF20 0 8120 DC /8120	C4090295 C4090296 C4090297
ODB3	C4090231 C4090232 C4090233 C4090234 C4090235	0 6	*  OF21 1 ODB3 T6L1 DC SM3  OF22 1 OD92 DC SM2  OF23 1 OD71 DC SM1	C4090298 C4090299 C4090300 C4090301 C4090302
00D1	C4090236 C4090237 C4090238 C4090239 C4090240	0 s 0	0F24 1 0E13 TBL4 DC SM6 0F25 1 0DF2 DC SM5 0F26 1 0DD1 DC SM4  ** 0F27 1 0E73 TBL5 DC SM9	C4C90303 C4090304 C4090305 C4090306 C4090307
ODF1 O FFFF  ODF2 O012 SM5 E3C .C002 P1D 09-CD 00.  GDF8 G012 E8C .ENTER 2 DIGIT DE.  CE04 O012 E8C .CIMAL ILSW BIT FUR.  OEOD 0G09 E8C .2ND 2310.	C4090241 C4090242 C4090243 C4090244 C4090245 C4090246	3 <del>-</del>	0F28 1 0E52 DC SM8 0F29 1 0E31 DC SM7  * 0F2A 1 0F26 TBL3 DC TBL5-1	C4090308 C4090309 C4090310 C4090311 C4090312 C4090313
0E12 0 FFFF DC /FFFF 0E13 0012 SM6 EBC .C003 PID 09-CD 00. 0E1C 0C12 EBC .ENTER 1 DIGIT DE.	C4090247 C4090248 C4090249 C4090250		0F28 1 0F23 DC T8L4-1 0F2C 1 0F20	C4090314 C4090315 C4090316 C4090317
0E25 0012 EBC .CIMAL CH FOR 2ND 2. 0E2E 0003 EBC .310. 0E30 0 FFFF DC /FFFF	C4( 90251 C4090252 C4u90253 C4090254	-   -	0F2F 0 0000 SWB3 DC 0 0F30 0 0000 SWB4 DC 0 0F31 0 0000 SWB5 DC 0 0F32 0 0000 SWB5 DC 0	C4090318 C4090319 C4090320 C4090321
0E31 0012 SM7 EBC .C001 PID 09-CD 00. 0E3A 0012 EBC .ENTER 2 DIGIT DE. 0E43 0012 EBC .CIMAL INTR LVL FOR. 0E4C 0009 EBC .3RD 2310. 0E51 0 FFFF DC /FFFF	C4090255 C4090256 C4090257 C4090258 C4090259		OF33 O 0000 SWB7 DC C OF34 O 0000 SWB8 DC C OF35 O 0000 SWB9 DC C OF36 O 0000 SWB10 DC C	C4090322 C4090323 C4090324 C4090325 C4090326
# 0E52 0012 SM8 EBC .C002 PID 09-CD 00. 0E58 0012 EBC .ENTER 2 DIGIT DE. 0E64 0012 EBC .CIMAL ILSW BIT FOR. 0E6D 0009 EBC .3RD 2310.	C4090260 C4090261 C4090262 C4090263 C4090264	7 0	OF37 O 0000 SWB11 DC C OF38 O 0000 SWB12 DC /0000 OF39 O 0008 SWB13 DC /0008 OF3A O 0010 Swb14 DC /0010 OF3B O 0018 SWB15 DC /0018 OF3C O 0638 SwB16 DC /0638	C4090327 C4090328 C4090329 C4090330 C4090331
0E72 0 FFFF DC /FFFF  0E73 0012 SM9 EBC .C003 PID 09-CD 00. 0E7C 0012 EBC .ENTER 1 DIGIT DE. 0E85 0012 EBC .CIMAL CH FOR 3RD 2. 0E8E 0003 EBC .310.	C4090265 C4090266 C4090267 C4090268 C4090269	9 3 ·	OF3D 0 0640 SWB17 DC /0640 OF3E 0 0648 SWB18 DC /0648 OF3F 0 0650 SWB19 DC /0650 OF40 GU 4C000138 END1 BSC L END0	C4090332 C4090333 C4090334 C4090335 C4090336 9033 C4090346
0E90 0 FFFF DC /FFFF	C409027 <b>0</b> C409027 <b>1</b> C409027 <b>2</b>			•

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 28	e •	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266
CP10-DIAG MON SKELETONS SKELETON 1D-08C4-C9-0			CPIO-DIAG MON SKELETONS SKELETON ID-08C4-09-0	PAGE 28A
CROSS REFERENCE LISTING		a o		
BGNR 0438 OC17, JC20, OC85, OC9E CH OCEC OCE9 CK OCE9 OC45 CKYN 012D OC17, JC40 ENDO 0138 UC17, OF40 ENDI OF40 OF42 ERR 0439 OC17 ERRET OCCE OC34 IL UCF4 OCEB ILSW OCFO OCEA KEY 012C OC17, OC1C, OC41, OC63, OC6D KEYN O12C OC17, OC1C, OC78, OC78, OC78, OC7F, OC8E, OC91, OC94, OC98 KOO03 OCD5 OC24 KOO08 OCD0 OC89 KOO65 OCCF OC73 KOO89 OCD2 OCAO KO111 OC04 OCA4 KU202 OCD3 OCAB KO657 OCD1 LGROP O43F OC17 ILWC 043E UC17 MTRM 043B UC17 MTRM 043B UC17 MTRM 043B UC17 MTRM 043B UC17 MTRM 043B UC17 SCH 0131 OC17, OCEC SECSU 0133 OC17, OCEC SECSU 0133 OC17, OCEC SECSU 0133 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC1 SER 0132 OC17, OCC6 SER 0132 OC17, OCF6 SER 0132 OC17, OCF6			SK6	
SKA1 OCC6 OC2E.OCCE  SKA2 UCC8 OC30  SKA3 OCCA OC32  SKE00 OCD7 OC74  SKE01 OCDA OCBA  SKE02 OCDD OCB7  SKE03 OCEO OCA9  SKE04 OCE3 OCA6  SKE05 OCE6 OC22  SKE06 OC4E OC26  SK1NO 0135 OC17  SK1N1 0134 OC17  SK1N1 017 OCBB  SK12 OC18 OCBD  SK13 OC19 OCBF  SK14 OC1A  SK0 OC2E OC4A.OCCC  SK00 UC2D OC53  SK1 OC43 OC40  SK10 OC6B OC69  SK11 OCA6 OCA1  SK12 OCA8 OCA5  SK11 OCA5 OCA6  SK10 OC6B OC69  SK11 OCA6 OCA1  SK12 OCA8 OCA5  SK11 OCA5 OCBA  SK12 OCA8 OCB5  SK13 OCA9 OCB6  SK11 OCA4 OCA1  SK12 OCA8 OCA5  SK13 OCAB OCBC.OCA3.OCA7  SK14 OC7A OCB3  SK15 OCB5 OCBA  SK2 OC47 OCEE.OCF2.OCF6  SK21 OC3E OCA7  SK21 OC3E OCA3D			TBL 0F1E 0C38 TBL1 0F21 0F2C TBL3 0F2A 0C3B TBL4 0F24 0F2B TBL5 0F27 0F2A TERM 043D 0C17,0C7D,0C96 TRFX 043C 0C17 MCC 043A 0C17 ZERU 0437 0C17,0C84,0C9D	

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			PART NO. 2242266 Page 29	1 3	IBM MAINTENANCE D	DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 Page 29a	
CPIO-DIAG MAN SKELE				z   z	CP10-DIAG MON SKE	ELETONS SKELETON ID-08C4-09-1		·
0000 012C 012D	ORG *+30 KEY EQU 300 CKYN EQU KEY+	· ·	C4091001 C4091002	:	CROSS REFERENCE L			€
012E 012F 0130	SSUER EQU CKYN	N+1 ER+1	C409100 <b>3</b> C409100 <b>4</b> C4091005	1 1	SYMBOL VALUE BGNR 0438 BINRY 013E	REFERENCES OC17 OC17		C
0131 0132	SCH EQU SILS	SW+1 +1	C4091006 C4091007 C4091008	: :	CKYN 012D ENDO 0136	0C17 0C17, 0C1B		Đ
0133 0134 0135	SECSU EQU SER+ SKINI EQU SECS SKINO EGU SKIN	SU+1	C409100 <b>9</b> C409101 <b>0</b>	= o	ERR 0439 KEY 012C	0C1D 0C17 0C17		•
	PDKYB EQU SKIN PHKYB EQU PDKY ENDU EQU PHKY	NO+1 YB+1	C4091011 C4091012 C4091013	o c	KEYIN 01DF LGROP 043F LHC 043E	0C17 0C17 0C17		1
013A 013E	S2 EQU ENDO BINRY EQU S2+4	0+2 [°] ∳	C4091014 C4091015 C4091016	<b>a</b>   0	MTRM 043B PDKYB 0136 PHKYB 0137	0C17 0C17 0C17		)
0437 0438	ZERO EQU KEYI BGNR EQU ZERO		C4091017 C4091018 C4091019	1	SCH 0131 SECSU 0133	0C17 0C17		•
0438	ERR EUU BGNR WCC EQU ERR+ MTRM EQU WCC+	·1	C409102 <b>0</b> C4091021	0 (	SIL 012F SILSW 0130	0C17 0C17 0C17		7
043C 043D	TRFX EQU MTRM TERM EQU TRFX LWC EQU TERM	(+1 (+1	C+091022 C+091023 C4091024	G C	SKINO 0135 SKIN1 0134 SKII 0C17	0C17 0C17		)
043F 0440	LGRCP EQU LWC+: STBF EQU LGRO	P1 PP+1	C4091025 C4091026 C4091027	0 0	SKI2 OC18 SKI3 OC19 SKI4 OC1A			)
0C17 0 0009 0C18 0 FFFF	SKI1 DC /000° SKI2 DC /FFFI	19	C4091028 C4091029 C4091030	0 (	SRTRY 0441 SSUER U12E	0C17		<b>)</b> `
0C1A 0 0000 0C1B 00 4C00013B	SKI3 DC O SKI4 DC O END1 BSC L ENDO	)	C4091031 C4091032 C4091033	0 8 0	S2 013A TERM 043D	0C17 0C17 0C17		7.
OCIE OCIB	END END1		C409103 C4091043	0 5	MCC 043A	0C17 0C17 0C17		<b>7</b>
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			PAGE 29	: •	EC NO. 415233		PAGE 29A	)
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IBM MAINTENANCE	DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM		: 8		
EP10-DIAG HON S		PART NO. 2242266 Page 30	2   2	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1900 SYSTEM	PART NO. 2242266
	ar as cour valu		2 8	CPIO-DIAG MON SKELETONS SKELETON ID-08C4-0A-0	PAGE 30A
0000 012¢ 0120	GRG #+3095 KEY EUU 300	C40A0001 C40A0002	z   z	0C48 0 7005 HDY 543	
012E 012F 0130	CKYN EQU KEY+1 SSUER EQU CKYN+1 SIL EQU SSUER+1	C40A0003 C40A0004		0C49 0 C003 SK2 LD	C40A0069 C40A0070
0131 0132	SILSW EQU SIL+1 SCH EQU SILSW+1 SER EQU SCH+1	C40A0005 C40A0006 C40A0007		OC4B 0 7002 STO SWB3 SET MDX SK3	C40A0071 C40A0072 C40A0073
0133 0134 0135	SECSU EQU SER+1 SKIN1 EQU SECSU+1	C40A0008 C40A0009 C40A0010	2   8	0C4C 0 0078 K0078 DC /0078 CONSTANTS 0C4D 0 0090 K0090 DC /0090 0C4E UC C400043D SK3 LD 1 750M	C40A0074 C40A0075
0136 0137 0138	PDKYB EQU SKINO+1 PHKYB EQU PDKYB+1	C40A0011 C40A0012	មី មិ	0C50 0 D00C STO SW2 SET	C40A0076 C40A0077 C40A0078
013A 013E	ENDO EQU PHKYB+1 S2 EQU ENDO+2 BIHRY EQU \$2+4	C40A0013 C40A0014 C40A0015	0   0	0C55 01 67800C19 LDX 12 SK12 0C57 00 44800133 LDX 13 SK13	C40A0079 C40A0080 C40A0081
01DF 0437 0438	KEYIN EJU BINRY+161 ZERO EGU KEYIN+600	C40A0016 C40A0017 C40A0018	0 0	0C54 00 4C00013A BSC L S2 EXIT	C40A0082 C40A0083 C40A0084
0439 043A 043B	ERR EQU BGNR+1 MCC EQU ERR+1	C40A0019 C40A0020	0 0	0050 0 0000 SWB1 DC 0 ENTRY STORAGE	C40A0085 C40A0086
043C 043D C43E	MTRM EQU WCC+1 TRFX EQU MTRM+1 TERM EQU TRFX+1	C40A0021 C40A0022 C4CA0023	o + c	0C5F 0012 SM1 EBC .C001 BYD co. co.	C40A0087 C40A0088 C40A0089
043F 0440	LWC EQU TERM+1 LGROP EQU LWC+1 STUF EQU LGROP+1	C40A0024 C40A0025 C40A0026	o o	0C71 0012 EBC • ENTER 2 DIGIT DE. 0C7A 0007 EBC • CIMAL INTRPT LVL F.	C4GA0090 C4GA0091 C4GA0092
0441 0017 0 GOOA 0018 G GOOO	SRTRY EQU STBF+1 SKI1 DC /COOA PID	C40A0027 C40A0028 C40A0029	$\alpha$ , $\alpha$	OCTE COLD	C40A0093 C40A0094
0C19 0 0003 0C1A 00 4480012E GC1C 00 4480012C	SVI3 DC /OOO3 NO ENTRIES SKI4 BSI I SSUER SET EKROR RETURN	C40A0030 C40A0031	ე. ე.ი	0C88	C40A0095 C40A0096 C40A0097
OC1E 1 OC5F OC1F 0 8120	DC SM1 DC /8120	SRC C40A0033 C40A0034		GC9D O FFFF DC /FFFF	C40A0098 C40A0099 C40A0100
0C20 00 4480012F 0C22 01 D4000C5C	BSI I SIL CK INT LVL	C40A0035 C40A0036 SRC C40A0037		OCAT 0012 SM3 EBC -C003 PID 0A-CD 00. OCAD 0012 EBC - ENTER 1 DIGIT DE	540A0101 540A0102 540A0103
0C24 00 4480012E 0C26 00 4480012C	BSI I SSUER SET ERROR RETURN	C40A0038 C40A0039	9   6	0CBC 0 FFFF DC /FFFF C	C40A0104 C40A0105
0C28 1 0C7F 0C29 0 8120	DC SM2 DC /8120	SRC C40A0041 C40A0042	0   0	OCC6 0012 SM4 EBC .C038 PID 0A-CD 00.	40A0106 40A0107 40A0108
0C2A 00 44800130 GC2C 01 F400055C	BSI I SILSW CK ILSW BIT EGR L SWBI BUILD DDEF	C40A0043 C40A0044 SRC C40A0045	-,   -	OCDB UOOC EBC •20 PRINT PUSITIONS. CA	40A0109 40A0110 40A0111
0C2E 01 D4000C5C	STO L SWB1 SAVE	C40A0046 C40A0047 C40A0048	7,	CCDF 00 4C000138 END1 BSC L END0 CC	40A0112 40A0113 40A0114
0C32 00 4480012C 0C34 1 0C9E 0C35 0 8110	DC SM3 ENTER CH 1ST 1443	SRC C40A0049 SRC C40A0050	7 .	C40 A011 C4	40A0124
0C36 00 44800131 0C38 01 F4000C5C	BSI 1 SCH CK CH NO	C40A0051 C40A0052 C40A0053	ō.		)
OC3A 01 D4000C5C	EDR L SHB1 BUILD DEEF STO L SHB1 SAVE	SRC C40A0054 C40A0055 C40A0056	-		)
0C3C 00 4480012E 0C3E 00 4480012C 0C40 1 0CBD	BSI I SSUER SET ERROR RETURN BSI I KEY DCES 1ST HAVE 120 DC SM4	C40A0057 SRC C40A0058 SRC C40A0059	• 0		7
GC41 0 8000 GC42 00 4480012D	DC /8000	C40A0060 C40A0061			1
0C44 0 7001 0C45 0 7003	BSI I CKYN CK FOR Y OR N MOX SKI ENTRY WAS Y MOX SK2 ENTRY WAS N	C40A0067 SRC C40A0063 C40A0064	-   -	<b>A</b>	3
0C46 0 C005 0C47 σ D016	SK1 LD K0078 GET 78	C40A0065 C40A0066 C40A0067	-   *		3
DATE 04NOV66	321	C40A0068			•
EC NO. 415233	_/	PROG ID 08C4-0 Page 30	=   •	DATE 04NOV66 EC NO. 415233	,
		•	: •	•	PROG ID OBC4-0

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART ND. 2242266	1 2	IBM MAINTENANCE	DIACNOSTIC DOCCUM		
CPIO-DIAG MUN SKELETONS SKELETON ID-08C4-04-0	PAGE 31	1 :		DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM SELETONS SKELETON ID-08C4-0A-1	PART NO. 2242266 Page 31a	
CROSS REFERENCE LISTING	•	t 3	0000			
SYMBOL VALUE REFERENCES BGNR U438 OC17 BINRY 013E OC17		ī , , , , , , , , , , , , , , , , , , ,	012C 012D 012E	ORG	C40A1001 C40A1002 C40A1003	
CKYN 012D 0C17,0C42 ENDO 0138 0C17,0CDF END1 UCDF 0CE1		.   3	012F 0130 0131	SIL EQU SSUER+1 SILSW EQU SIL+1 SCH EQU SILSW+1	C40A1004 C40A1005 C40A1006	
ERR			0132 0133 0134	SER EQU SCH+1 SEC SU EQU SER+1 SKINI EQU SEC SU+1	C40A1007 C40A1008 C40A1009	
KOU78 OC4C OC46 KOO9O UC4D OC49 LGROP O43F OC17		. 3	0135 0136 0137	SKINO EQU SKINI+1 PDKYB EQU SKINO+1 PHKYB EQU PDKYB+1	C40A1010 C40A1011 C40A1012 C40A1013	
LHC 043E 0C17 MTRM 043B 0C17 PDKYB 0136 0C17		2 2	0138 013A 013E	ENDO EQU PHKYB+1 S2 EQU ENDO+2 BINRY EQU S2+4	C40A1014 C40A1015 C40A1016	
PHKYB 0137 0C17 SCH 0131 UC17,0C36 SECSU 0133 0C17,0C57 SER 0132 0C17		: 0	01DF 0437 0438 0439	KEYIN EQU BINRY+161 ZERO EQU KEYIN+600 BGNR EQU ZERO+1	C40A1017 C40A1018 C40A1019	
SER 0132 0C17 SIL 012F 0C17,0C20 SILSW 013U 0C17,0C2A SKINO 0135 0C17		÷ -	043A 043B 043C	ERR EQU BGNR+1 WCC EQU ERR+1 MTRM EQU WCC+1 TRFX EQU MTRM+1	C40A1020 C40A1021 C40A1022	
SKIN1 0134 0C17 SKI1 0C17 0C51 SKI2 0C18 0C53		5	043D 043E 043F	TRFX EQU MTRM+1 TERM EQU TRFX+1 LWC EQU TERM+1 LGROP EQU LWC+1	C4CA1023 C40A1024 C40A1025	
SK13 OC19 OC55 SK14 OC1A SK1 OC46 OC44		<b>:</b>	0440 0441 0017 0 000A	STBF EQU LGROP+1 SRTKY EQU STBF+1 SKI1 DC /000A	C40A1026 C40A1027 C40A1028	
SK2 UC49 OC45 SK3 UC4E OC48, OC48 SK7 OC51		<b>5.3</b>	0C18 0 FFFF 0C19 0 0000 0C1A 0 0000 0C1B 00 4C000138	SKI2 DC /FFFF Ski3 DC O Ski4 DC O	C40A1029 C40A1030 C40A1031 C40A1032	
SM1		;	OC1E OC18	END1 BSC L ENDO END END1	C40A1033 C40A103 C40A1043	
SRTRY 0441 SSUER 012E 0C17, 0C1A, 0C24, 0C30, 0C3C STBF 0440 0C17		: 5				,
SWB1 0C5C 0C22,0C2C,0C2E,0C38,0C3A,0C59 SWB2 0C5D 0C50 SWB3 UC5E 0C47,0C4A		3 3				
S2 013A 0C17,0C5A TERM 043D 0C17,0C4E TRFX 043C 0C17		•				
WCC 043A 0C17 ZERO 0437 0C17		: -				
		. 0				
		. 0				
•						
<b>v</b>						
DATE ° 04NOV66		•				

IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 Page 32	t   :	IBM MAINTENANCE D	IAGNOSTIC PROGRAP FOR THE	1800 SYSTEM	PART N Page	. 3242266 . 328
DPID-DIAG MON SKELETONS SKELETON ID-08C4-0A-1	5.··==	<b>8</b> 3	CPIG-DIAG MON SKE	LETONS SKELETON ID-02C4-	0B <b>-0</b>	-	. )
SYMECL VALUE REFERENCES BONR 0436 OC17 EINRY 0136 OC17 CKYN 0120 OC17 ENDO 0138 OC17, OC18 ENO1 OC18 OC17 END 0138 OC17 END 0138 OC17 END 0138 OC17 ENT OC17 ENT OC17 ENT OC17 ENT OC17 ENT OC17 LOC 0436 OC17 LOC 0436 OC17 LOC 0436 OC17 LOC 0436 OC17 LOC 0436 OC17 LOC 0436 OC17 LOC 0436 OC17 SCH 0131 OC17 SCH 0131 OC17 SCH 0131 OC17 SCH 0131 OC17 SCN 0135 OC17 SIL 012F OC17 SILSW 0130 OC17 SKIN 0135 OC17 SKIN 0135 OC17 SKIN 0134 OC17 SKIN 0135 OC17 SKIN 0134 OC17 SKIN 0135 OC17 SKIN 0134 OC17 SKIN 0135 OC17 SKIN 0136 OC17 SKIN 0137 OC17 SKIN 0138 OC17 SKIN 0139 OC17 SKIN 0130 OC17 SKIN 0134 OC17 SKIN 0135 OC17 SKIN 0136 OC17 SKIN 0137 OC17 SKIN 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17 TERM 0430 OC17			0000 012C 012D 012E 012F 0130 0131 0132 0133 0134 0135 0136 0137 0138 013A 013E 010F 0437 0438 0439 0434 0439 0434 0439 0438 0439 0436 0430 043E 0436 0430 043E 0440 0441 0C17 0 0008 0C18 0 0000 0C19 0 0C02 0C1A 00 4480012E 0C1C 00 4480012C 0C1E 1 0D11 0C1F 0 8120  0C20 00 4480012E 0C20 00 4480012C 0C28 1 0D32 0C24 00 4480012C 0C28 1 0D32 0C20 00 4480012C 0C28 1 0D32 0C20 00 4480012C 0C28 1 0D32 0C20 00 44800130 0C2C 01 F4000CB2 0C2C 01 D4000CB2  0C30 00 44800130 0C2C 01 F4000CB2 0C3C 00 44800131 0C3S 0 0 44800131 0C3S 0 0 44800131 0C3S 0 0 44800131 0C3S 0 0 4480012C 0C3S 0 0 44800131 0C3S 0 0 44800131 0C3S 0 0 4480012C 0C3S 0 0 44800131 0C3S 0 0 4480012C 0C3C 00 4480012C 0C3C 00 44800131 0C3S 0 8210	ORG		C4080001 C4080003 C4080005 C4080005 C4080006 C4080007 C4080000 C4080010 C4080011 C4080011 C4080012 C4080015 C4080016 C4080019 C4080020 C4080021 C4080022 C4080025 C4080025 C4080026 C4080027 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080028 C4080030 C4080031 C4080031 C4080031 C4080032 C4080035 C4080035 C4080036 C4080036 C4080037 C4080036 C4080037 C4080036 C4080037 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080038 C4080048 C4080048 C4080048 C4080048 C4080048 C4080048 C4080055 C4080055 C4080055 C4080055 C4080055 C4080055 C4080056 C4080058	
DAT E 04NUV66	PROG ID 08 <b>C4-0</b>	: n : n : t	0C3F 0 8000 0C40 00 44800120 0C42 0 7003 0C43 0 C06A 0C44 0 D06E 0C45 0 7002 DATE 04N0V66 EC NO. 415233	DC /8000 # BSI I CKYN MDX SK1 # LD K0001 STO \$#82 MDX SK2	CK FOR Y OR N ENTRY WAS Y GET 1 SET NOT AVAIL	C4080061 C4080062 SRC C4080063 C4080065 C4080066 C4080066 C4080068	

TAN MAINTENANCE DIA							(	*							
IOM MAINTENANCE DIA						PART NO. 224226 PAGE 33			IBM MAINTENANCE	DIAGNOSTIC PRO	GRAM FOR TH	E 1800 SYSTEM		PART NO.	- 224226
CPIO-DIAG MUN SKELE	ETONS	SKE	LETON ID-08C4	-08-0					CPIO-DIAG MON SI	KELETONS SKEL	ETON ID-OEC4	-08-0		PAGE	33/
						,	•		•						
0C46 0 1010 0C47 0 D06B	SK1	SLA Sto		SET AVAIL		C4080069 C4080070 C4080071	(	) :	0C9E 00 4480013		I PDKY8	CCNVERT	SRC	C4080137 C4080138	
0C48 01 65800C17 0C4A 01 66800C18	* SK2		11 SK11 12 SK12	SET IXING		C4080072 C4080073	C	) a	OCAO O 0004 OCAI O 0437 OCAZ OO C400013E	DC DC	4 ZERO L BINRY	CK NUMBER		C4060139 C4080140	
OC4C 01 67800C19	*	LDX	13 SK13			C4080074 C4080075 C4080076	Ċ	จ	OCA4 0 BOOB OCA5 0 701B	CMP MDX	K1000 SKE03	ERROR TOO GREAT		C4080141 C4080142 C4080143	
0C4E 00 44800133 0C50 1 0C82		BSI DC	I SECSU SHB1	SET CARD	SRC	C40B0077 C40B0078	Ç	O	OCA6 0 1000 OCA7 01 D7000CB3 OCA9 0 7105	NOP STO MDX	0 L3 S\u00e482 1 5	SAVE ENTRY		C4089144 C4080145	
0C51 00 4480012E 0C53 00 4480012C		128 128	I KEY	SET ERROR RETURN ARE WD CT CHGS DES	SRC SRC	C4080079 C4080080 C4080081		1	OCAA 00 74FB01DE OCAC 0 70C5	MDX MDX	L KEYIN-1.	INCR IX 1 -5 DECR WD CT GET NEXT		C4CB0146 C4OB0147 C4OB0148	
0C55 1 0D92 0C56 0 8000		DC DC	SM5 /8000			C40B0082 C40B0083	C	0 0	OCAD 0 70AC OCAE 0 0001	# # # # # # # # # # # # # # # # # # #	SK3	COMPLETE		C4080149 C4080150	
0C57 00 4480012D 0C59 0 700B		BSI MDX	I CKYN SK4	CK FOR Y OR N Entry was y	SRC	C4080084 C4080085 C4080086	Q	÷   ₹1	OCAF 0 0038 OCBO 0 03E8	K0056 DC K1000 DC	56 1000	CONSTANTS		C4080151 C4080152 C4080153	
0C5A 01 65800C17 0C5C 01 66800CBC	SK3		11 SKI1 12 SKI5	SET IXING		C40800 <b>87</b> C408008 <b>8</b>	C	0	0CB1 0 0008 0CB2 0 0000	KOOOB DC * SWB1 DC	8	DATA STORAGE		C40B0154 C40B0155	
0C5E 01 67800CBD 0C60 00 44800133	•	LDX	13 SK16			C4080089 C4080090 C4080091	(	5	0CB3 0 0000 0CB4 0 0000 0CB5 0 0000	SW82 DC SW83 DC	0	JATA STORAGE		C4080156 C4080157 C4080158	
0C62 1 0CB4	•	DC	1 SECSU SWB3	SET CARD	SRC	C4080092 C4080093 C4080094	C	$\circ$	0CB6 0 0000 0CB7 0 0000	DC DC DC	0 0 0			C408J159 C4080160 C4080161	
0C63 00 4C00013A	* SK4		L S2 I SSUER	EXIT		C4080095 C4080096	0		0CB8 0 0000 0CB9 0 0000 0CBA 0 0000	DC DC DC	0			C4080162 C4080163	
0C67 00 4480012C 0C69 1 0DB2	3.4	851 DC	I KEY SM6	SET ERROR RETURN ENTER REC WD CT.	SRC	C408009 <b>7</b> C408009 <b>8</b> C4080099			OCBB 0 0000	DC *	ŏ			C4080164 C4080165 C4080166	
0C6A U 8040 0C65 00 C40001DE	•	DC DC	/8040 L KEYIN-1	GET WD CT		C4080100 C4080101	$\circ$	• (	OCBC 0 0001 OCBD 0 0008	SKI5 DC SKI6 DC	/0001 /0008	CD ONE NO OF ENTRIES		C40B0167 C40B0168	
0C6D 0 8041 0C6E 0 704F		CMP MDX	K0056 SKE01	CK FOR MAX ERROR-TGO MANY		C4080102 C4080103 C4080104	Ō	-	OCBE 00 44800132 OCCO 1 OCCA	SKEO1 BSI DC	I SER SEOO1	TOO MANY WO CTS	SRC	C40B0169 C40B0170 C40B0171	
0C6F 0 1000 0C70 00 650001DF 0C72 0 C100	SK5	NOP LDX LD	O L1 KEYIN 1 O	SET IX GET ENTRY		C4080105 C4080106 C4080107	Û		0CC1 00 44800132 0CC3 1 0CE0	SKE 03 BSI DC	I SER SE003	ND CT TOO GREAT	SRC	C40B0172 C40B0173 C40B0174	
9C73 00 040001DF 9C75 00 C400043D 9C77 00 D40001E0		LD	L KEYIN ; L TERM L KEYIN+1	SET GET FFFF SET		C4080108 C4080109	7.	-	OCC4 00 44800132 OCC6 1 OCFA	* SKE 04 B S I DC	I SER SE004	REC TOO GREAT	SRC	C4080175 C4080176	
0C79 00 44800136 GC7B 0 0001		B S I DC	I PDKYB	CONVERT	SRC	C40B0110 C40B0111 C40B0112	-		OCC7 00 44800132	* SKE05 BSI	I SER	FLD WAS ZERO	SRC	C40B0177 C40B0178 C40B0179	
0C7C 0 0437 0C7D 00 C40G013E 0C7F 01 4C180CC7		DC LD BSC	ZERO L BINRY L SKEO5.+-	GET REC NO ERROR		C40B0113 C40B0114	=	ŀ	0CC9 1 0CFA 0CCA 0012	DC * SEOO1 EBC	SE004	D 08-CD 00.		C40B0180 C40B0181	
0C81 0 802F 0C82 0 7041 0C83 0 1000		CMP MDX	K0008 SKE04	C< FOR MAX TOO GREAT		C40B0115 C40B0116 C40B0117	7		0CD3 0012 0CDC 0006 0CDF 0 FFFF	EBC EBC	. IMPROP .OF WDS.	ER NUMBER .		C4080182 C4080183 C4080184	
OC84 0 DOU1	SK6	NOP STO LDX	0 SK6+1 L3 0	SET I < 3 = ENTRY		C4080118 C4080119 C4080120			OCEO 0012	DC * SEOO3 EBC	.E012 P1	D 08-CD 00.		C4080185 C4080186 C4080187	
OC87 0 7102 OC88 00 74FE01DE OC8A 0 7003		MDX	1 2 L KEYIN-1,-	INCR IX 1		C40B0121 C40B0122	•		0CE9 0012 0CF2 000D 0CF9 0 FFFF	EBC EBC DC	• TOG LA •T-MAX IS /FFFF	RGE A WD C.		C40B0188 C40B0189	
0C8B 00 44800132 0C8D 1 OCCA			I SER SEOOL	TOO FEW ENTRIES	SRC	C40B0123 C40B0124 C40B0125	*	•	OCFA 0012	* SEOO4 EBC		D 08-CD 00.		C4080190 C4050191 C4080192	
0C8E 0 C100 5	* SK7	LD STO	1 O L KEYIN	SET ENTRIES		C40B0126 'C40B0127	•	0	0D03 0012 0D0C 0007 0D10 0 FFFF	EBC EBC DC		TOO LARGE .		C40B0193 C40B0194	
0C91 0 C101 0C92 00 D40001E0		LD Sto	1 1 L KEYIN+1			C40B0128 C40B0129 C40B0130	:	Ú	OD11 0012	* SM1 EBC	-C001 PI	D OB-CD 00.		C4080195 C4080196 C4080197	
0C94 0 C102 0C95 00 D40U01E1 0C97 0 C103		STO	1 2 L KEYIN+2 1 3			C40B0131 C40B0132	<b>2</b>	0	0D1A 0U12 0D23 0012 0D2C 0009	EBC EBC EBC	<ul> <li>ENTER :</li> <li>CIMAL IN:</li> <li>MAG TAF!</li> </ul>	2 DIGIT DE. TR LVL FOR. E.		C4080198 C4080199	
0C98 00 D40001E2 0C9A 00 C400043D		STO LD	L KEYIN+3 L TERM			C4080133 C4080134 C4080135		-	OD31 O FFFF	DC ≄	/FFFF			C40B0200 C40B0201 C40B0202	
0C9C 00 D40U01E3		210	L KEYIN+4			C4080136	-	-	0D32 0012 0D38 0012	SM2 EBC EBC		O OB-CD OO. P DIGIT DE.		C4060203 C4060204	
DATE 04NDV66 EC NO. 415233						PROG ID 08C4-0 PAGE 33	3	3	DATE 04NDV66 EC NO. 415233					PROG ID	08C4-6

IBM MAINTENANCE DIAGNOSTIC PPOGRAM FOR THE 1800 SYSTEM	PART ND. 2242266	0 2		3
CPIO-DIAG MUN SKELETONS SKELETON ID-08C4-08-0	PAGE 34		IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 34A
		0 :	CPIC-DIAG MON SKELETONS SKELETCN ID-0EC4-08-0	•
OD44 UO12 EBC .CIMAL ILSW BIT FOR. OD4D 0009 EBC .MAG TAPE.	C4080205 C4080206	0 :	CROSS REFERENCE LISTING	•
0D52 0 FFFF DC /FFFF  0D53 0012 SM3 EBC .C003 PID 0B-CD 00.	C40B020 <b>7</b> C40B020 <b>8</b>	0 :	SYMBOL VALUE REFERENCES BGNR 0438 OC17	
OD5C 0012 EBC . ENTER 1 DIGIT DE. OD65 0012 EBC .CIMAL CH FOR MAG T.	C408020 <b>9</b> C408021 <b>0</b> C4080211		BINRY 013E 0C17,0C7D,0CA2 CKYN 012D 0C17 0C40,0C57	1
OD70 O FFFF DC /FFFF	C4080212 C4080213 C4080214		END1 ODE4 ODE6 ERR 0439 OC17	3
0D71 0012 SM4 EBC .C005 PID 0B-CD 00. 0D7A 0012 EBC . DDFS THIS SYSTEM. 0D83 0012 EBC . HAVE 2 TAPE DRS-T.	C40B021 <b>5</b> C40B02 <b>1</b> 6	5  5	KEY 012C 0C17,0C1C,0C26,0C32,0C3C,0C53,0C67 0C17,0C6B,CC70,0C73,0C77,0C88,UC8F,0C92,0C95,0C98, 0C9C,0CAA	3
ODBC GUOA EBC THE DRS-1. OD91 O FFFF DC /FFFF	C408021 <b>7</b> C408021 <b>8</b> C4080219		K0001 OCAE OC43 K0008 OCB1 OC81	3
0D92 0012 SM5 EBC .C015 PID 0B-CD 01. 0D9B 0012 EBC . IS IT DESIRED TO.	C4080220 C4080221	0 1 5	K0U56	1
ODA4 OO12 EBC . CHANGE WO CTS-TYP. ODAD OO08 EBC .E Y OR N. ODB1 O FFFF DC /FFFF	C40B022 <b>2</b> C40B022 <b>3</b> C40B022 <b>4</b>	0 0	LHC 043E 0C17 MTRM 043B 0C17 PDKYB 0136 0C17, 0C79, 0C9E	1
ODB2 0012 SM6 EBC .CU16 PID OB-CD 01.	C40B0225 C40B0226 C40B022 <b>7</b>	9 0	PHKYB 0137 0C17 SCH 0131 0C17, 0C36	
ODBB OO12 EBC • ENTER REC TO CHA. ODC4 OO12 EBC • NGE AND WO CT DESI. ODCD OU12 EBC • RED, 1-8 ENTRIES I.	C40B0228 C40B0229		SECSU 0133 0C17,0C4E,0C60 SER 0132 0C17,0C8B,0CBE,0CC1,0CC4,0CC7 SE001 0CCA 0C8D,0CCO	1
ODD6 0012 EBC N FOLLOWING FORMAT. ODDF 0008 EBC SD DDDD.	C408023 <b>0</b> C408023 <b>1</b> C408023 <b>2</b>		SEG03 OCEO OCC3 SEG04 OCFA OCC6, OCC9	3
ODE3 O FFFF DC /FFFF ODE4 OO 4COO0138 END1 BSC L ENDO ODE6 ODE4 END END1	C40B0233 C40B0234 C40B023 C40B0244		SILSW 0130 OC17, OC2A SKEO1 OCBE OC6E	)
	0.00025 04000244		SKE03 OCC1 OCA5 SKE04 OCC4 OCB2 SKE05 OCC7 OC7F	. J.
		r,	SKINO 0135 0C17 SKIN1 0134 0C17	נ
		<b>a</b> 10	SKI1 0C17 0C48,0C5A SKI2 0C18 0C4A SKI3 0C19 0C4C	3
			SK14 OC1A SK15 OCBC OC5C SK16 OCBD OC5E	•
			SK1 0C46 0C42 SK2 0C48 0C45	•
		1	SK3 OC5A OCAD SK4 OC65 OC59 SK5 OC72 OCAC	1
			SK6	3
			SM2	1
		-	SM4	1
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CPIG-DIAG MON SKELETONS SKELETON ID-0EC4-0F-1	PART NO. 2242266 PAGE 38	0 6 8	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 38A
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 39  C4280001 C4280002 C4280003 C4280004 C4280005 C4280007 C4280008 C4280009 C4280010 C4280011 C4280012 C4280013 C4280014 C4280015	0	1BM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM  CPIO-DIAG MON SKELETONS SKELETON ID-08C4-28-0  OC43 0 COGC SK1 LD K0001 GET 1 OC44 0 DOOD SK3 STO SWB2 SET MEM SP  OC45 01 65600C17 LDX 11 SK11 SET IXING OC47 01 66800C18 LDX 12 SK12 OC49 01 67800C19 LDX 13 SK13  CC48 00 44800133 BSI I SECSIL SET CARD	PAGE 39A  C4280069	3 1
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0C37 00 4480012E BSI I SSUER SET ERROR RETURN SEC	C4280055 C4280056 C4280057	<b>→</b>	,		<b>1</b>
0C39 00 4480012C BSI 1 KEY 1S MEM SPEED 2 MIC SRC 0C3B 1 UCBC DC SM4 0C3C 0 8000 DC /8000	C4280059 C4280060	n C			, J
0C3D 00 4480012D BSI 1 CKYN C FOR Y OR N SRC		<b>0</b> 0			, ,
0C40 0 7002 MDX SKI EVTRY WAS N  0C41 0 1010 SK2 SLA 16 C SAP ASSURE	C4280064 C4280065 C4280066	3 O			, 1
0C42 0 7001 MDX SK3	C4280067 C4280068	: 0			<i>,</i>
DATE 04N0V66 EC NO. 415233 .	PROG ID 08C4-0 PAGE 39	8 0	DATE 04NCV66		8
	<b>37</b>	<b>t</b> 0	EC NO. 415233	PRDG ID 08 <b>C4-0</b> Page <b>39A</b>	3

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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 40	c <b>3</b>	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 18	PAGE 40A	1
CP10-DIAG MON SKELETONS SKELETON ID-08C4-28-0	•	g <b>3</b>	CP10-DIAG MUN SKELETONS SKELETON ID-08C4-28-	-1	9
CROSS REFERENCE LISTING .  SYMBOL VALUE REFERENCES		0 :	0000 DRG ++3095 012C KEY EQU 300	C4281001 C4281002	•
EGNR 0438 OC17 BINRY 013E UC17 CKYN 012D OC17, OC3D		0 :	0120 CKYN EQU (EY+1 012E SSUER EQU CKYN+1 012F SIL EQU SSUER+1	C4281003 C4281004 C4281005	3
ENDO 0138 0C17, 0C DF END1 0CDF GCE1 ERR 0439 0C17		<b>₹</b>	0130	C4281006 C4281007 C4281008	3
KEY 012C 0C17,0C1C,0C25,0C2F,0C39 KEYIN 01DF 0C17 K0001 0C50 0C43		ς ‡	0133 SEC SU EQU SER+1 0134 SKINI EQU SEC SU+1 0135 SKINO EQU SKINI+1	C4281009 C4281010 C4281011	)
LGROP 043F 0C17 LWC 043E 0C17 MTRM 043B 0C17		0 0	0136 PDKYB EQU SKINO+1 0137 PHKYB EQU PDKYB+1 0138 ENDO EQU PHKYB+1 013A S2 EQU ENDO+2	C4281012 C4281013 C4281014	)
PDKYB 0136 UC17 PHKYB 0137 UC17 SCH 0131 UC17, 0C33		e t	013A S2 EQU ENDO+2 013E BINRY EQU S2+4 01DF KEYIN EQU BINRY+161 0437 ZERO EQU KEYIN+600	C4281015 C4281016 C4281017 C4281018	า
SECSU 0133 0C17, 0C48 SER 0132 0C17 SIL 012F 0C17, 0C20		g 0	0438 BGNR EQU ZERO+1 0439 ERR EQU BGNR+1 043A WCC EQU ERR+1	C4281019 C4281020 C4281021	)
SILSH 0130 0C17, 0C29 SKINO 0135 0C17 SKINI 0134 0C17 SKII 0C17 0C45		g ( 0	043B MTRM EQU HCC+1 043C TRFX EQU MTRM+1 043D TERM EQU TRFX+1	C4281022 C4281023 C4281024	)
SKI1 0C17 0C45 SKI2 0C18 0C47 SKI3 0C19 0C49 SKI4 0C1A		0 C	043E         LWC         EQU         TERM+1           043F         LGROP EQU         LWC+1           0440         STBF         EQU         LGROP+1	C4281025 C4281026 C428102 <b>7</b>	)
SK1 0C43 0C40 SK2 0C41 0C3F SK3 0C44 0C42		0 0	0441 SRTRY EQU STBF+1 0C17 0 0028 SKI1 DC /0028 0C18 0 FFFF SKI2 DC /FFFF	C428102 <b>8</b> C428102 <b>9</b> C428103 <b>0</b>	7
SM1 0C53 0C1E SM2 0C77 0C27 SM3 0C9B 0C31		3.5	OC19 O 0000 SKI3 DC O CC1A O 0000 SKI4 DC O OC1B OO 4C000138 END1 BSC L ENDO OC1E OC1B END END1	C4281031 C4281032 C4281033	<b>)</b> ;
SM4 OCBC OC3B  SRTRY 0441  SSUER 012E OC17, OC1A, OC23, OC2D, OC37		7 E 1 0	CHU CHUI	C428103 C4281043	)
STBF 0440 0C17 SWB1 0C51 0C22,0C2B,0C2C,0C35,0C36,0C4D SWB2 0C52 0C44 S2 013A 0C17,0C4E		5 3			,
\$2 013A 0C17,0C4E TERM 043D 0C17 Thfx 043C 0C17 HCC 043A 0C17		5 2			,
ZERO 0437 OC17		0 3			, 1
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266	1 8	IBM MAINTENANCE	DIACNUSTIC DEGCOAM FOR A				3
CPIO-DIAG MON SKELETONS SKELETON ID-08C4-28-1	PAGE 41	1 7		DIAGNOSTIC PROGRAM FOR T CELETONS SKELETON ID-08C			PART NO. 2242266 Page 41A	9
CROSS REFERENCE LISTING		8 8	The series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series with the series win the series with the series with the series with the series with	SKELE ID'A ID-08C	4-29-0			•
SYMBOL VAILUE REFERENCES BGNR 0438 OC17	,	3 3	0000 012C	URG *+3095 KEY EQU 300			C4290001	•
BINRY 013E 0C17 CKYN 012D 0C17		: :	0120 012E 012F	CKYN EQU KEY+1 SSUER EQU CKYN+1			C429000 <b>2</b> C429000 <b>3</b> C4290004	•
END1 OC1B OC1D ERR 0439 OC17		e   5	0130 0131 0132	SILSW EQU SIL+1 SCH EQU SILSW+1			C4290005 C4290006 C4290007	3
KEY 012C 0C17 KEYIN 01DF 0C17 LGROP 043F 0C17		0 0	0133 0134	SER EQU SCH+1 SECSU EQU SER+1 SKIN1 EQU SECSU+1			C4290008 C429000 <b>9</b>	)
LWC 043E 0C17 MTRM 043B 0C17 PDKYB 0136 0C17		0 0	0135 0136 0137	SKINO EQU SKINO+1 PHKYB EQU PDKYB+1			C4290010 C4290011 C4290012	)
PHKYB 0137 0C17 SCH 0131 0C17		0 0	0138 013 <b>a</b> 013E	ENDO EQU PHKYB+1 S2 EQU ENDO+2 BINRY EQU S2+4			C4290013 C4290014 C4290015	)
SER 0132 0C17 SIL 012F 0C17		0 0	01DF 0437 0438	KEYIN EQU BINRY+16 ZERO EQU KEYIN+60			C4290016 C4290017 C4290018	)
SKINO 0135 0C17 SKIN1 0134 0C17		0 0	0439 043A 043B	ERR EQU BGNR+1 WCC EQU ERR+1			C4290019 C4290020 C4290021	)
SKI1 0C17 SKI2 0C18 SKI3 0C19		0 0	043C 043D 043E	TRFX EQU MTRM+1 TERM EQU TRFX+1			C4290022 C4290023 C4290024	)
SK14 OC1A SRTRY 0441 SSUER 012E OC17			043F 0440	LWC EQU TERM+1 LGROP EQU LWC+1 STBF EQU LGROP+1			C4290025 C4290026	)
STBF 0440 OC17 S2 013A OC17 TERM 043D OC17			0441 0C17 0 0029 0C18 0 0000	SRTRY EQU STAF+1 SKI1 DC /0029 SKI2 DC /0000	PID CD NO		C4290027 C4290028 C4290029	)
TRFX 043C GC17 HCC 043A GC17 ZERG 0437 GC17		3	0C19 0 0002 0C1A 0U 4460012E 0C1C 00 4480012C	SKI3 DC /0002 SK14 BSI I SSUER BSI I KEY	NO ENTRIES SET ERROR CONTROL ENTER IL	SRC	C4290030 C4290031 C4290032	) _s
		-, - , - , - , - , - , - , - , - , - ,	0C1E 1 0C53 0C1F 0 8120	DC SM1 DC /8120	CHIEN AE	(	C4290033 C4290034 C4290035	)
		•	0C20 00 4480012F 0C22 0 D02E	BSI I SIL STO SWB1	CK INTR LVL Save	SRC (	C4290036 C4290037 C4290038	)
		~	0C23 00 4480012E 0C25 00 448C012C 0C27 1 0L77	BSI I SSUER BSI I KEY	SET ERROR RETURN ILSW BIT	SRC (	C4290039 C4290040 C4290041	)
		ס ר	0C28 0 8120 0C29 00 44800130	DC SM2 DC /8120		c c	C4290042 C4290043 C4290044	)
			CC2B 0 F025 OC2C 0 D024	BSI I SILSW EOR SWB1 STO SWB1	CK ILSW BIT Build doef Save	SRC C	C429004 <b>5</b> C429004 <b>6</b>	<b>1</b>
		7 0	0C2D 00 4480012E 0C2F 00 4480012C	BSI I SSUER BSI I KEY	SET ERROR RETURN ENTEP CH	SRC C	C4290047 C4290048 C4290049	` `
		-) ,-	0C31 1 0C9B 0C32 0 8210	DC SM3 DC /8210	Server GH	C	C429005 <b>0</b> C429005 <b>1</b> C429005 <b>2</b>	,
,			0C33 00 44800131 0C35 0 F01B 0C36 0 D01A	BSI I SCH EOR SWB1 STO SWB1	CK CHANNEL BUILD DDEF	SRC C	C4290053 C4290054 C4290055	,
		1	0C37 00 4480012E 0C39 00 4480012C	BS1 1 SSUER	SAVE SET ERROR RETURN	C: C: SBC C:	C4290056 C4290057 C4290058	.)
		0 0	0C3B 1 0CBC 0C3C 0 8000	BSI I KEY DC SM4 DC /8000	IS MEM SPEED 2 MIC	SRC C	429005 <b>9</b> 429006 <b>0</b> 429006 <b>1</b>	3
		2 0	0C3D 00 44800127 0C3F G 7001	BSI I CKYN	CK FOR Y OR N ENTRY WAS Y	SRC C	4290062 4290063	3
		<b>3</b> 3	0C40 0 7002 0C41 0 1010	MDX SK1	ENTRY WAS N	C4	4290064 4290065 4290066	1
CATE 04NOV66		-	0042 0 7001	MDX SK3	-sem AUUUN		429006 <b>7</b> 429006 <b>8</b>	1

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CP10-CI	AG MUH SH	ELETONS	SKEL	LETON 10	0-0 aC4-	-29-0				PAGE	4.	.2	C	1												PART NO PAGE		266 62A	<b>3</b> 5	
		•											ε	8		DI 10-1	IAG MON	SKELETU	NS 5K	ELE TON	ID-080	4-29-0							Pagagage and	
0C43 0 0C44 0		SK1 SK3	LD STO	KOC Swa		GET :	1 Mem spee	D		C4290069 C4290070 C4290071	<b>)</b>		ε	2			REFERENC VALUE												ay Walling London	
0047 01	65800C17 66800C18 67800C19		FDX FDX		2	SET	IXING			C4290072 C4290073 C4290074			C	:		BGNR BINRY CKYN	0438 013E 012D	0C1	7										THEOTOGOGG	
	44800133	*	921 DC	I SEC	su	SET (	CARD		SRC	C4290075 C4290076 C4290077			Ç	ถ		ENDO END1 ERR	0138 0CDF 0439	0C1 0CE: 0C1											t spelik in skiller	٠
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0C5C 0C65	0012 0012 000F	241	EBC EBC	.cı	ENTER Mal In	D 29-CD 2 DIGIT TR LVL	DE. FGR.			C4290087 C4290088 C4290089			O	(		SECSU SER SIL	0131 0133 0132	0C17 0C17											alen alen makkangan	
0076 0		* SM2	EBC DC EBC	/FFI	F <b>F</b>	ADAPTER				C4290090 C4290091 C4290092			0	(*)		SILSW SKINO SKIN1	012F 0130 0135 0134	0C17 0C17												
0C80 0C89	0012 0012 000F	3/12	EBC EBC	. CI	ENTER .	D 29-CD 2 DIGIT SW BIT	DE. FOR.			C4290093 C4290094 C4290095			0			SKII SKI2 SKI3	0C17 0C18 0C19	0C17 0C45 0C47	•											
0C9A 0	FFFF 0012	* SM3	DC EBC	/FF1	FF	ADAPTER D 29-CD				C4290096 C4290097 C4290098			0	i i		SK14 SK1 SK2	0C1A 0C43 0C41	0C49 0C40											1	
OCA4 OLAD	0012 0012 0009	0.13	EBC EBC	• E	ENTER 1	1 DIGIT FOR 36	DE.			C4290099 C4290100 C4290101			O.	6		SK3 SM1 SM2	0C44 0C53 0C77	0C3F 0C42 0C1E 0C27				>							3	
OCBB O	FFFF GO12	* SM4	DC EBC	/FFF	FF	n• D 29 <b>-C</b> D	00			C4290102 C4290103 C4290104			Ó	۲,		SM3 SM4 SRTRY	0C9B 0CBC 0441	0C31 0C3B	•										4	
OCCE	0012 0012 000D		EBC EBC EBC	• I	S MEM	SPEED I	FOR.			C4290105 C4290106 C4290107			۲,	t		SSUER STBF SWB1	012E 0440 0C51	0617	, OC 1A , O										eg .	
OCDE O OCDF OO OCE2	FFFF 4C000136 OCDF	END1	DC	/FFF L ENDO ENO1	F )	O				C4290108 C4290109 C4290110			· ·			SWB2 S2 TERM	0C52 013A 043D	0C44	0C 4E	C2 C 1 UC3	99,0636	,0640							~ *	
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IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266	:   :	IBM MAINTENANCE DIAGNOSTIC PROGRAM FOR THE 1800 SYSTEM	PART NO. 2242266 PAGE 43A	3
DPIO-DIAG MON SKELETONS SKELETON ID-08C4-29-1	PAGE 43	1 1	DPIO-DIAG MON SKELETONS SKELETON ID-06C4-29-1		2
0000 012C 012C 012C 012E 012E 012E 012E 0131 0130 0131 0131 0131 0133 0132 0133 0134 0135 0135 0136 0137 0136 0137 0138 0139 0138 0139 0131 0139 0140 0150 0150 0170 0170 0170 0170 0170 017	C4291001 C4291003 C4291005 C4291005 C4291006 C4291007 C4291008 C4291010 C4291011 C4291012 C4291013 C4291015 C4291016 C4291017 C4291018 C4291019 C4291020 C4291021 C4291021 C4291021 C4291022 C4291023 C4291024 C4291025 C4291026 C4291027 C4291028 C4291029 C4291030 C4291031 C4291031 C4291033 C4291033 C4291033 C4291033 C4291033 C4291033 C4291033 C4291033		CRGSS KEFERENCE LISTING  SYMUCL VALUE REFERENCES BCNK 04-38 OCLT BLNKY 0136 OCLT CKNO 0120 OCLT CKNO 0120 OCLT CKNO 0120 OCLT CKNO 0126 OCLT CKNO 0126 OCLT KEY 012C OCLT KEY 012C OCLT KEY 10 10DF OCLT LGROP 04-3F OCLT LGROP 04-3F OCLT PIKKY 0136 OCLT PIKKY 0131 OCLT SCH 0131 OCLT SCH 0131 OCLT SCH 0131 OCLT SCH 0131 OCLT SCH 0132 OCLT SILS 0130 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0136 OCLT SKIN 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT SCH 0401 OCLT		
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